County of Los Angeles Department of Public Works

Water Quality Monitoring 2005 Annual Report

for the

Master Mitigation Plan for the Big Tujunga Wash Mitigation Bank

February 2006



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Water Quality Monitoring 2005 Annual Report

SUMMARY

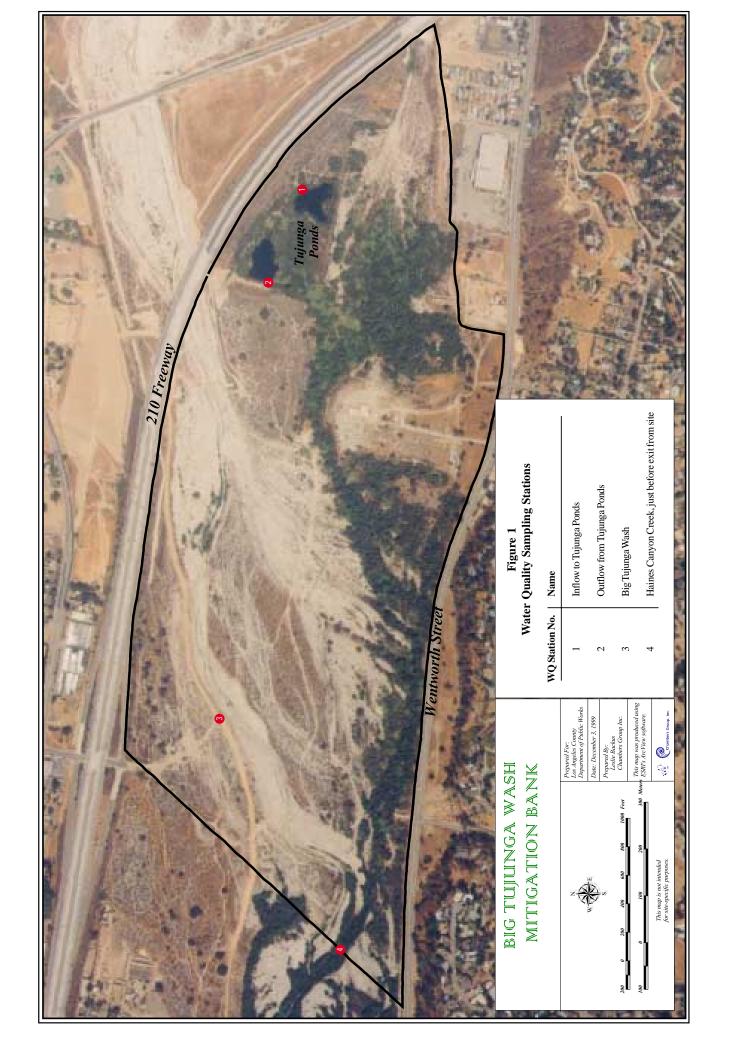
Water quality sampling was conducted at four sampling stations at the County of Los Angeles Department of Public Works (LADPW) Big Tujunga Wash mitigation bank for four quarters of 2005. Samples were collected at three points along Haines Canyon Creek (inflow to the Tujunga Ponds, the outflow from the ponds, and in Haines Canyon Creek leaving the mitigation bank site) and in Big Tujunga Wash in April, June, October and December of 2005 (**Figure 1**). Parameters monitored included temperature, dissolved oxygen (DO), pH, nutrients, turbidity, bacteria levels, an insecticide (chlorpyrifos) and a herbicide (glyphosate). Both field meters and laboratory analyses were used in the water quality sampling program. This is the fifth annual report for a 5-year water quality monitoring program that began in the fourth quarter of 2000.

For most parameters, observed water quality met Los Angeles Regional Water Quality Control Board (Regional Board) Basin Plan objectives and water quality criteria for freshwater recommended by the U.S. Environmental Protection Agency (EPA). (Note – 2004/2005 was one of the highest recorded rainfall years for the Los Angeles area.) Temperatures were cool enough and DO concentrations generally high enough for growth and survival of warmwater fish species. Observed pH values ranged from 6.8 to 9.0 units, and turbidity levels were low. Residual chlorine and pesticides were not detected. Excessive nutrient conditions were not noted. A degree of nitrogen reduction was observed between inflow and outflow from the Tujunga Ponds. Measured fecal coliform levels were consistently below the water contact recreation standard.

BACKGROUND

LADPW purchased a 207-acre parcel in Big Tujunga Wash as a mitigation bank for County flood control projects throughout Los Angeles. In coordination with local agencies, the County defined a number of measures to improve habitat quality at the site. A Master Mitigation Plan (MMP) was prepared to guide the implementation of these enhancements. The MMP also includes a 5-year monitoring program to gather data on conditions at the site during implementation of the improvements. The MMP was prepared and is being implemented by Chambers Group, Inc. MWH, a subconsultant to Chambers Group, is responsible for the water quality monitoring program described in the MMP. This is the fifth annual report of the 5-year water quality monitoring program that began in the fourth quarter of 2000.

The project site is located just east of Hansen Dam in the Shadow Hills area of the City of Los Angeles (**Figure 1**). Both Big Tujunga Wash (an intermittent stream) and Haines Canyon Creek (a perennial stream) traverse the project site in an east-to-west direction. The two Tujunga Ponds are located at the far eastern portion of the site.



Project Site Activities

A timeline of project-related activities that could influence water quality is presented in **Table 1**.

Table 1
Major Activities to Date at the Big Tujunga Wash Mitigation Bank

Date	Activity			
4/00	Baseline water quality sampling			
11/00 to 11/01	Arundo, tamarisk, and pepper tree removal			
11/00 to 11/01	Chemical (Rodeo®) application			
12/00 to 11/02	Water hyacinth removal			
12/00	Fish Sampling at Haines Canyon Creek			
12/14/00	Water quality sampling			
1/01 to present	Exotic aquatic wildlife (non-native fish, crayfish, bullfrog, and turtle)			
1/01 to present	removal – conducted quarterly			
2/01	Partial riparian planting			
3/01	Selective clearing at Canyon Trails Golf Club			
3/12/01	Water quality sampling			
6/19/01	Water quality sampling			
7/01	Fish Sampling at Haines Canyon Creek			
9/11/01	Water quality sampling			
10/01 to 11/01	Fish Sampling at Haines Canyon Creek			
12/12/01	Water quality sampling			
1/02	Final riparian planting			
2/02	Upland replacement planting			
3/26/02	Water quality sampling			
6/25/02	Water quality sampling			
7/02	Fish Sampling at Haines Canyon Creek			
9/12/02	Water quality sampling			
10/02	Grading at Canyon Trails Golf Club begins			
11/02	Fish Sampling at Haines Canyon Creek			
12/19/02	Water quality sampling			
3/20/03	Water quality sampling			
4/1/03	Meeting with Canyon Trails Golf Club to discuss future use of			
	herbicides and fertilizers			
6/23/03	Water quality sampling			
8/03	Fish Sampling at Haines Canyon Creek			
9/30/03	Water quality sampling			
Fall 2003	Completion of the golf course construction			
12/17/03	Water quality sampling			
1/04	Fish Sampling at Haines Canyon Creek			
4/2/04	Water quality sampling			
4/3/04	Rock Dam Removal Day			
6/04	Angeles National Golf Club (previously named Canyon Trails) opens to the public			

Table 1 (Continued)
Major Activities to Date at the Big Tujunga Wash Mitigation Bank

Date	Activity
7/2/04	Water quality sampling
10/5/04	Water quality sampling
12/9/04	Water quality sampling
4/7/05	Water quality sampling
6/30/05	Water quality sampling
10/25/05	Water quality sampling
12/22/05	Water quality sampling

Water Quality Monitoring Program

In order to establish water quality upstream and downstream of the site, quarterly sampling and analysis has been performed for 5 years, for a total of 21 individual sampling days (four quarters a year for 5 years plus the first sampling period in December 2000). The monitoring program has been designed to specifically address inputs to the site from upstream land uses such as the Angeles National Golf Club (previously named Canyon Trails Golf Club). Potential impacts to aquatic species from run-on to the site that contains excessive nutrients or pesticides are of primary concern.

The golf course has been operating since June 2004. Additional construction at the club house building is in progress and is scheduled for completion in 2006 (Angeles National Golf Course staff, personal communication to A. Kawaguchi, MWH, January 18, 2006).

In March 2004, the golf course maintenance staff indicated that the following chemicals may be used on an as needed basis: PrimoTM (a grass growth inhibitor used for turf management; active ingredient – trinexapac-ethyl) and Rodeo[®] (an herbicide used to control aquatic weeds; active ingredient – glyphosate) (J. Reidinger, pers. comm. to M. Chimienti, LADPW, March 18, 2004). Based on this information, glyphosate was added to the list of sampling parameters starting in the first quarter of 2004.

In December 2004 and February 2005, the Golf Club provided MWH with the golf course's monthly pesticide use reports. The reports indicate that 10 types of chemical products (seven herbicides, one insecticide, one fungicide, and one grass growth inhibitor) were applied as summarized in **Table 2**. Based on this information, chlorpyrifos (an insecticide) was added to the list of sampling parameters starting in the fourth quarter of 2004.

In December 2004, the Golf Club also provided MWH with the golf course's water quality monitoring reports to date. The results were summarized and presented in the 2004 Annual Report for the Big Tujunga Wash Mitigation Bank Water Quality Monitoring Program (distributed in February 2005).

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No further data regarding the Golf Club's pesticide application or water quality monitoring activities were provided as a result of requests made in August 2005, December 2005 and January 2006.

Table 2
Pesticide Applications at the Angeles National Golf Course
(June – November 2004)

Active Ingredient	Manufacturer and Product Name	Applications
Chlorpyrifos	Dow AgroSciences Dursban Pro (insecticide)	One application (145,000 sq. ft.) in August
Diquat dibromide	Syngenta Reward (herbicide)	Two applications (43,000 sq. ft. and not recorded) in August, one application (87,000 sq. ft.) in September, and one application in November
Flutolanil	Bayer Prostar 70 WP (fungicide)	One application (120,000 sq. ft.) in July and one application (140,000 sq. ft.) in August
Glyphosate	Lesco Prosecutor (herbicide)	Three applications (one 86,000 sq. ft. and two not recorded) in August
Glyphosate and Diquat dibromide	Monsanto QuickPRO (herbicide)	Three applications (20,000 to 30,000 sq. ft.) in June and one application (20,000 sq. ft.) in July
Imazapyr	BASF Stalker (herbicide)	Two applications in November
Oryzalin	Dow AgroSciences Surflan (herbicide)	One application (87,000 sq. ft.) in September
Pelargonic acid	Mycogen Scythe (herbicide)	One application (86,000 sq. ft.) in August
Prodiamine	Syngenta Barricade (herbicide)	Three applications (two 86,000 sq. ft. and one not recorded) in August
Trinexapac-ethyl	Syngenta Primo Maxx (grass growth inhibitor)	One application (120,000 sq. ft.) in June, three applications (76,000 to 120,000 sq. ft.) in July, two applications (140,000 and 156,000 sq. ft.) in August, and two applications (60,000 and 128,000 sq. ft.) in September

Source: Angeles National Golf Course Monthly Summary Pesticide Use Reports for June through November 2004 sq. ft. – square feet

MATERIALS AND METHODS

Sampling Stations

Four sampling locations have been identified for the 5-year monitoring program for the Big Tujunga Wash Mitigation Bank (**Figure 1** and **Table 3**). The coordinates of the sampling stations were determined by a hand-held Global Positioning System. **Table 4** summarizes sampling conditions observed on the four sampling dates in 2005.

Sampling Parameters

Water Quality. Table 5 summarizes the sampling parameters included in the water quality monitoring program. The following meters were used in the field:

- DO and temperature HACH SensION 6 DO meter
- Total residual chlorine HACH DR 700
- pH Orion 230A with HACH 51935 electrode

All other analyses except chlorpyrifos were performed in duplicate at MWH Laboratories, Monrovia, California. Analysis for chlorpyrifos was conducted in duplicate at CRG Laboratories, Torrance, California. Samples were taken at mid-depth, along a transect perpendicular to the stream channel alignment. Quality assurance/quality control (QA/QC) procedures in the laboratory followed the methods described in the MWH Laboratories *Quality Assurance Manual*.

Table 3
Water Quality Sampling Locations

Sampling Locations	Latitude	Longitude
Haines Canyon Creek, just before exit from site	N 34° 16' 2.9"	W 118° 21' 22.2"
Haines Canyon Creek, inflow to Tujunga Ponds	N 34° 16' 6.9"	W 118° 20' 18.7"
Haines Canyon Creek, outflow from Tujunga Ponds	N 34° 16' 7.1"	W 118° 20' 28.3"
Big Tujunga Wash	N 34° 16' 11.7"	W 118° 21' 4.0"

Table 4
Water Quality Sampling Conditions

Description	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
Date	4/7/2005	6/30/2005	10/25/2005	12/22/2005
Approximate Air Temperature	70°F	75°F	68°F	72°F
Skies	Sunny	Sunny / hazy	Overcast	Sunny
Water Volume / Notes	High flows in Haines Canyon Creek – Two additional streams had been created Dense algae in		(See page 21)	(See page 21)
Time of Sample				
Haines Canyon Creek Exiting the Site	10:15 a.m.	10:00 a.m.	10:00 a.m.	8:30 a.m.
Inflow to Tujunga Ponds	12:40 p.m.	12:30 p.m.	11:30 a.m.	10:00 a.m.
Outflow from Tujunga Ponds	1:25 p.m.	11:00 a.m.	12:30 p.m.	11:00 a.m.
Big Tujunga Wash	11:35 a.m.	1:30 p.m. 1:20 p.m.		12:30 p.m.

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Table 5
Water Quality Sampling Parameters

Parameter	Analysis Location	Analytical Method
total Kjeldahl nitrogen (TKN)	laboratory	EPA 351.2
nitrite (NO ₂)	laboratory	EPA 300.0 by IC
nitrate (NO ₃)	laboratory	EPA 300.0 by IC
ammonia (NH ₄)	laboratory	EPA 350.1
orthophosphate - P	laboratory	Standard Methods 4500P-E
total coliform	laboratory	Standard Methods 9221B
fecal coliform	laboratory	Standard Methods 9221C
total organic halogens (organochlorides)	not sampled in 2005	
total phosphorus - P	laboratory	Standard Methods 4500PE/EPA 365.1
organophosphate (total P minus ortho-P)	calculation	
turbidity	laboratory	EPA 180.1
glyphosate (Roundup/Rodeo) ¹	laboratory	EPA 547
chlorpyrifos ²	laboratory	EPA 625
1 golf course fungicide	not sampled in 2005	
dissolved oxygen	field	Standard Methods 4500-O G
total residual chlorine	field	Standard Methods 4500-Cl D
temperature	field	Standard Methods 2550
рН	field	Standard Methods 4500-H+

Sources for analytical methods:

EPA. Method and Guidance for Analysis of Water.

American Public Health Association, American Waterworks Association, and Water Environment Federation. 1998. Standard Methods for the Examination of Water and Wastewater, 20th Edition. Washington D.C.

- 1 First analysis completed in the first quarter of 2004.
- 2 First analysis completed in the fourth quarter of 2004. This analytical method (diazinon/chlorpyrifos by GCMS, EPA 625) tests for the following chemicals: diazinon, sulprofos, chlorpyrifos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, fenthion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate.

Discharge Measurements. In addition to the water quality monitoring, flows in the outlet from Tujunga Ponds, in Haines Canyon Creek leaving the site, and in Big Tujunga Wash were estimated using a simple field procedure. The technique uses a float (a small plastic ball) to measure stream velocity.

Calculating flow then involves solving the following equation:

$$Flow = ALC / T$$

Where:

- A = Average cross-sectional area of the stream (stream width multiplied by average water depth)
- L = Length of the stream reach measured (usually 20 ft)
- C = A coefficient or correction factor (0.8 for rocky-bottom streams or 0.9 for muddy-bottom streams). This allows you to correct for the fact that water at the surface travels faster than near the stream bottom due to resistance from gravel, cobble, etc. Multiplying the surface velocity by a correction coefficient decreases the value and gives a better measure

of the stream's overall velocity.

T = Time, in seconds, for the float to travel the length of L

RESULTS

Baseline Water Quality

Sampling and analysis conducted by LADPW prior to implementation of the MMP is considered the baseline for water quality conditions at the site. The results of analyses conducted in April 2000 are presented in **Table 6**. Higher bacteria and turbidity observed in the 4/18/00 samples are attributable to a rain event. Phosphorus levels were also high in the 4/18/00 samples, perhaps due to release from sediments.

2005 Results

Water Quality

Results of analyses for the four quarters of 2005 conducted by MWH Laboratories and CRG Laboratories are appended to this report (**Appendix A**) and summarized in **Table 7** through **Table 10**. Note that the yields (percent recoveries) of QC samples in 2005 were within acceptable limits (percentages) for all samples except: 1) the matrix spikes and matrix spike duplicates for nitrite-nitrogen and Kjeldahl nitrogen in the third quarter [Since Laboratory Control Standards (LCSs) were within control limits for these parameters, data are deemed acceptable as reported]; and 2) LCSs for nitrite-nitrogen in the fourth quarter [Results were high-biased; however, the data were not affected since all results for nitrite-nitrogen were non-detect].

Water quality results for five years of sampling are depicted in **Figure 2** through **Figure 8**. Where duplicate analyses were conducted, the average value is graphed.

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Table 6
Baseline Water Quality (2000)

Parameter	Units	Date	Haines Canyon Creek, inflow to Tujunga Ponds	Haines Canyon Creek, outflow from Tujunga Ponds	Big Tujunga Wash	Haines Canyon Creek, just before exit from site
Total coliform	MPN/	4/12/00	3,000	5,000	170	1,700
Total collorm	100 ml	4/18/00	2,200	170,000	2,400	70,000
Fecal coliform	MPN/	4/12/00	500	300	40	80
recai conform	100 ml	4/18/00	500	30,000	2,400	50,000
Ammonia-N	*** ~ /T	4/12/00	0	0	0	0
Ammonia-N	mg/L	4/18/00	0	0	0	0
NI:4ia - NI	/T	4/12/00	0.061	0	0	0
Nitrite-N	mg/L	4/18/00	0.055	0	0	0
Niturata NI	/T	4/12/00	8.38	5.19	0	3.73
Nitrate-N	mg/L	4/18/00	8.2	3.91	0.253	0.438
W:-14-11 N	/T	4/12/00	0	0.1062	0.163	0
Kjeldahl-N	mg/L	4/18/00	0	0.848	0.42	0.428
Dissolved	/T	4/12/00	0.078	0.056	0	0.063
phosphorus	mg/L	4/18/00	0.089	0.148	0.111	0.163
Total	/T	4/12/00	0.086	0.062	0	0.066
phosphorus	mg/L	4/18/00	0.113	0.153	0.134	0.211
	std	4/12/00	7.78	7.68	7.96	7.91
рН	units	4/18/00	7.18	7.47	7.45	7.06
T1: 1:4	NITH	4/12/00	1.83	0.38	1.75	0.6
Turbidity	NTU	4/18/00	4.24	323	4070	737

Table 7
Summary of Water Quality Results
1st Quarter 2005 (4/7/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	19.0		17.8		17.0		15.3	
Dissolved Oxygen	mg/L	7.4		7.7		11.5		11.4	
рН	std units	7.2		7.3		9.0		9.0	
Total residual chlorine	mg/L	ND		ND		ND		ND	
Ammonia-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Kjeldahl Nitrogen	mg/L	0.44	0.31	0.27	0.30	0.23	0.24	0.21	0.54
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	5.4	5.4	3.2	3.6	ND	ND	ND	ND
Orthophosphate-P	mg/L	0.022	0.021	0.025	0.026	0.011	0.012	ND	ND
Total phosphorus-P	mg/L	0.021	0.024	0.022	0.022	0.010	ND	ND	0.012
Glyphosate	μg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.50	0.70	0.60	0.50	1.6	1.3	1.4	1.3
Fecal Coliform Bacteria	MPN/100ml	2	2	8	13	2	2	8	4
Total Coliform Bacteria	MPN/100ml	500	220	500	700	170	21	500	21

No duplicate samples are taken for field measurements.

MPN – most probable number ND – non-detect

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^{*} The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

Table 8
Summary of Water Quality Results
2nd Quarter 2005 (6/30/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	20.5		19.5		26.3		19.5	
Dissolved Oxygen	mg/L	7.5		5.1		5.2		7.8	
рН	std units	6.8		6.9		8.4		7.8	
Total residual chlorine	mg/L	ND		ND		ND		ND	
Ammonia-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Kjeldahl Nitrogen	mg/L	0.24	0.21	ND	0.34	ND	0.36	0.23	0.21
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	4.6	4.7	2.6	2.6	ND	ND	2.3	2.3
Orthophosphate-P	mg/L	0.024	0.024	0.028	0.029	ND	ND	0.032	0.031
Total phosphorus-P	mg/L	0.042	0.012	0.025	0.040	0.013	ND	0.033	0.030
Glyphosate	μg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.20	0.30	0.25	0.25	0.20	0.30	0.25	0.20
Fecal Coliform Bacteria	MPN/100ml	50	17	170	170	2	13	80	110
Total Coliform Bacteria	MPN/100ml	2,400	3,500	16,000	2,400	16,000	2,200	2,400	900

⁻⁻ No duplicate samples are taken for field measurements.

MPN – most probable number

ND - non-detect

^{*} The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

Table 9
Summary of Water Quality Results
3rd Quarter 2005 (10/25/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	19.0		19.0		19.9		18.5	
Dissolved Oxygen	mg/L	4.5		4.8		8.3		8.3	
рН	std units	6.9		6.9		8.6		7.9	
Total residual chlorine	mg/L	ND		ND		ND		ND	
Ammonia-Nitrogen	mg/L	0.08	0.09	0.09	0.09	ND	ND	ND	ND
Kjeldahl Nitrogen	mg/L	0.35	0.31	0.30	0.28	0.24	0.24	0.34	0.27
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	2.8	2.8	2.9	2.9	ND	ND	2.8	2.8
Orthophosphate-P	mg/L	0.040	0.039	0.040	0.040	ND	ND	0.044	0.042
Total phosphorus-P	mg/L	ND	0.031	ND	ND	ND	ND	ND	ND
Glyphosate	μg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.50	0.60	0.65	0.70	3.5	3.6	1.7	0.50
Fecal Coliform Bacteria	MPN/100ml	50	13	50	50	17	13	80	130
Total Coliform Bacteria	MPN/100ml	1,400	1,100	3,000	500	700	1,600	1,600	2,200

⁻⁻ No duplicate samples are taken for field measurements.

MPN – most probable number

ND - non-detect

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^{*} The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

Table 10 Summary of Water Quality Results 4th Quarter 2005 (12/22/05)

Parameter	Units	Inflow to Tujunga Ponds 1	Inflow to Tujunga Ponds 2 (duplicate)	Outflow from Tujunga Ponds 1	Outflow from Tujunga Ponds 2 (duplicate)	Big Tujunga Wash 1	Big Tujunga Wash 2 (duplicate)	Haines Cyn Creek exiting site 1	Haines Cyn Creek exiting site 2 (duplicate)
Temperature	°C	17.4		18.0		13.0		15.0	
Dissolved Oxygen	mg/L	7.4		5.3		9.2		8.4	
рН	std units	6.8		6.9		8.6		7.7	
Total residual chlorine	mg/L	ND		ND		ND		ND	
Ammonia-Nitrogen	mg/L	ND	0.06	0.08	0.07	0.17	0.16	0.15	0.08
Kjeldahl Nitrogen	mg/L	0.23	0.37	0.56	0.25	0.25	0.21	0.26	0.27
Nitrite-Nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND
Nitrate-Nitrogen	mg/L	3.9	3.9	3.4	3.4	ND	ND	3.4	3.4
Orthophosphate-P	mg/L	0.027	0.028	0.028	0.027	ND	ND	0.030	0.032
Total phosphorus-P	mg/L	0.086	0.083	0.051	0.083	0.067	0.010	0.054	0.083
Glyphosate	μg/L	ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos*	ng/L	ND	ND	ND	ND	ND	ND	ND	ND
Turbidity	NTU	0.55	0.60	0.50	0.35	0.90	0.95	0.6	0.9
Fecal Coliform Bacteria	MPN/100ml	30	13	2	13	2	7	11	8
Total Coliform Bacteria	MPN/100ml	500	2,800	7,000	16,000	2,200	1,700	260	280

No duplicate samples are taken for field measurements.

MPN – most probable number

ND - non-detect

^{*} The analytical method used for chlorpyrifos (diazinon/chlorpyrifos by GCMS, EPA 625) also tests for the following chemicals: diazinon, sulprofos, demeton, dichlorvos, disulfoton, dimethoate, ethoprop, fenchlorophos, fensulfothion, merphos, mevinphos, malathion, parathion-methyl, phorate, tokuthion, tetrachlorovinphos, and trichloronate. Samples for this quarter were all non-detect for these EPA 625 parameters.

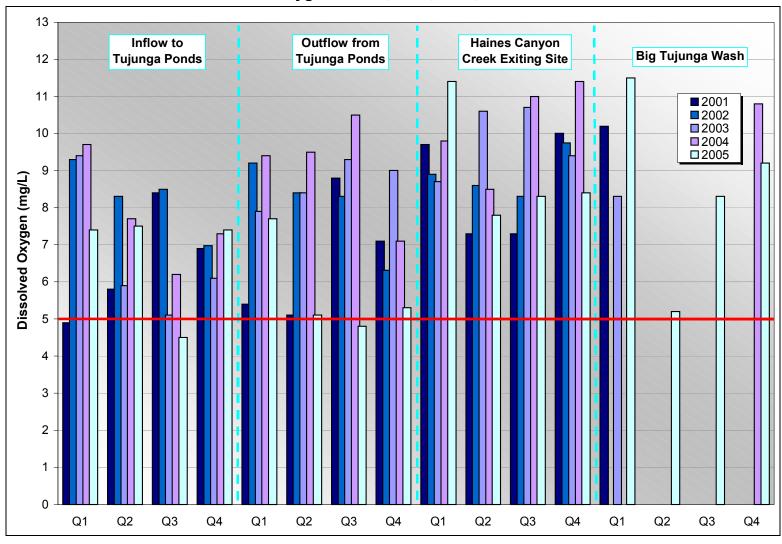


Figure 2
Dissolved Oxygen – 2001, 2002, 2003, 2004 and 2005

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- The red line indicates the Basin Plan objective and EPA criterion for minimum dissolved oxygen level (warmwater fish species), which is 5 mg/L (see Table 12).

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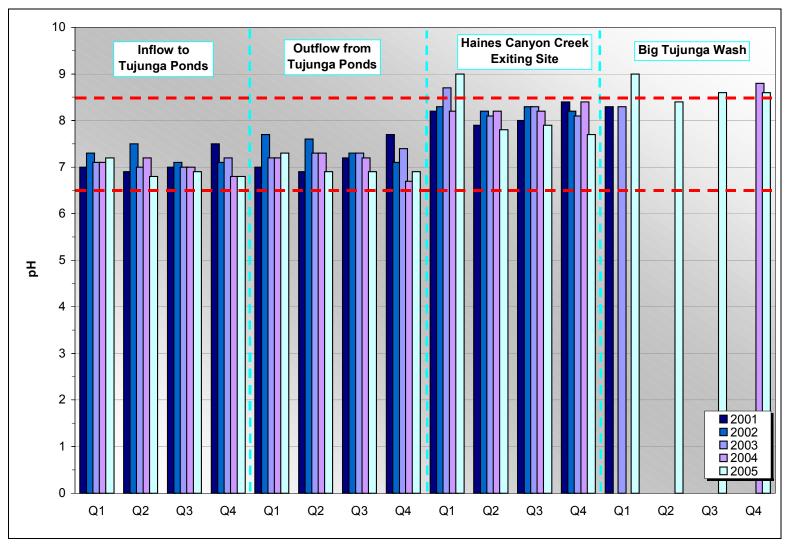


Figure 3 pH – 2001, 2002, 2003, 2004 and 2005

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- The red dashed lines indicate the upper and lower values of the Basin Plan objective for pH, which are 6.5 and 8.5, respectively (see **Table 12**).

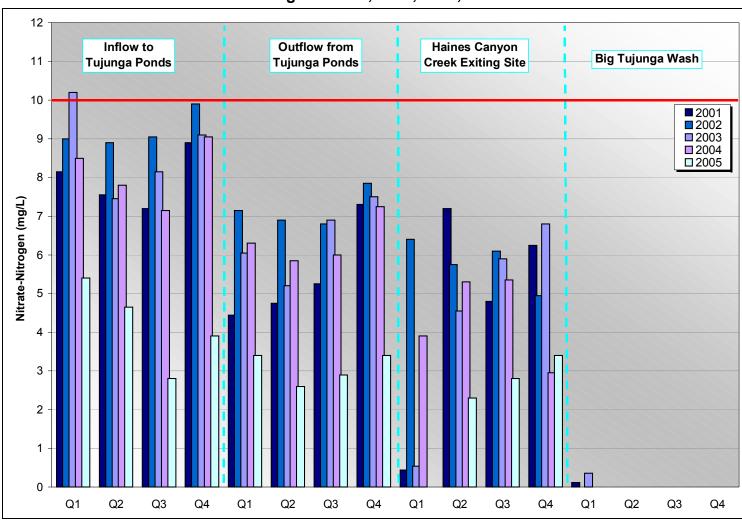


Figure 4
Nitrate as Nitrogen – 2001, 2002, 2003, 2004 and 2005

- Flows were observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005. In the fourth quarter of 2004 and all four quarters of 2005, nitrate-nitrogen concentrations in Big Tujunga Wash were below the detection limit.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red line indicates the Basin Plan objective for nitrate-nitrogen, which is 10 mg/L (see **Table 12**).

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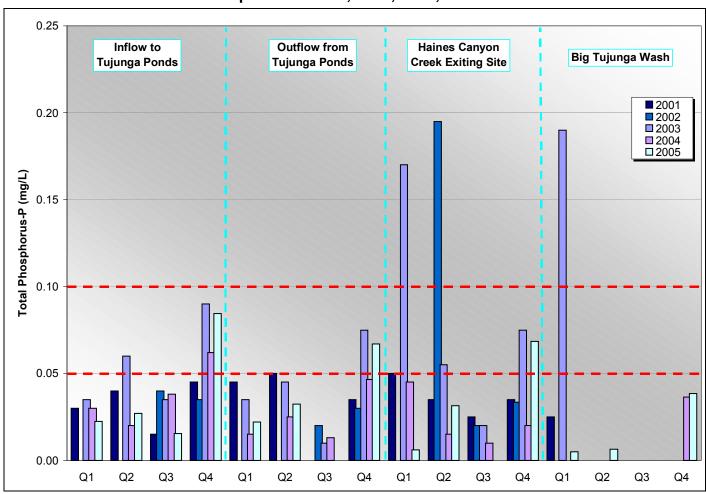


Figure 5
Total Phosphorus – 2001, 2002, 2003, 2004 and 2005

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005. In the third quarter of 2005, total phosphorus concentrations in Big Tujunga Wash were below the detection limit.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red dashed lines indicate the upper and lower values of EPA's recommended range for streams to prevent excess algae growth, which are 0.05 and 0.1 mg/L, respectively (see **Table 12**).

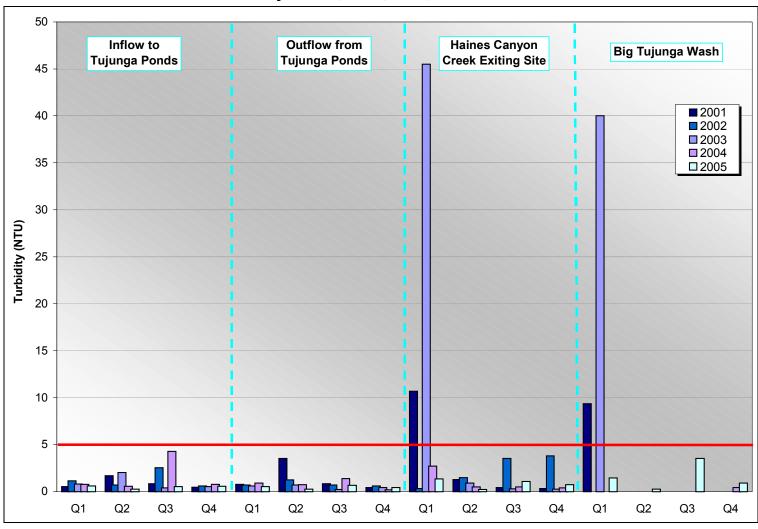


Figure 6
Turbidity – 2001, 2002, 2003, 2004 and 2005

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red line indicates the secondary drinking water standard for turbidity, which is 5 NTU (see Table 12).

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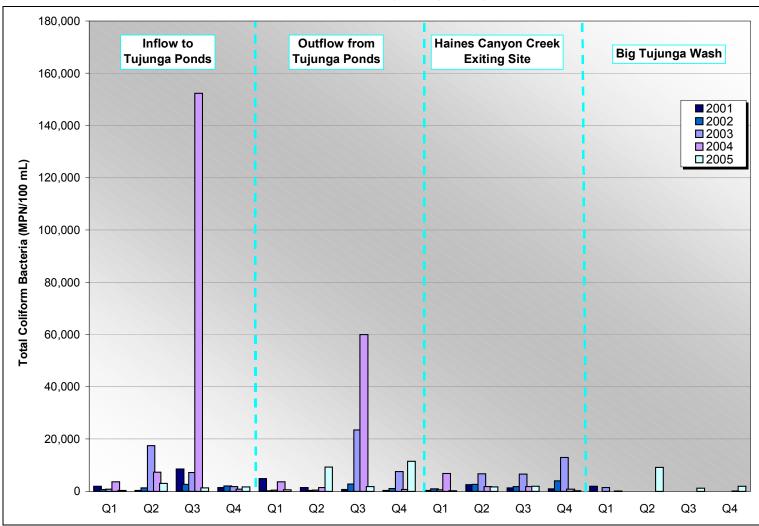


Figure 7
Total Coliform Bacteria – 2001, 2002, 2003, 2004 and 2005

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- Each bar represents the average value of the duplicate samples taken on each date.
- There are no numeric or narrative standards for total coliform.

1,000 **Outflow from** Haines Canyon Creek Inflow to Tujunga Ponds Big Tujunga Wash Tujunga Ponds **Exiting Site** 900 800 ■2001 **2002 2003** Fecal Coliform Bacteria (MPN/100 mL) 700 **2004** □2005 600 500 400 300 200 100 Q1 Q1 Q2 Q3 Q3 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q4 Q1 Q2 Q4

Figure 8
Fecal Coliform Bacteria – 2001, 2002, 2003, 2004 and 2005

- Flows observed in Big Tujunga Wash in the first quarters of 2001 and 2003, in the fourth quarter of 2004, and all four quarters of 2005.
- Each bar represents the average value of the duplicate samples taken on each date.
- The red line indicates the Basin Plan water contact recreation standard for fecal coliform, which is 200 MPN/100 mL (see Table 12).

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Discharge Measurements

Using the field technique described above, flows in the outlet from Tujunga Ponds, in Haines Canyon Creek leaving the site, and in Big Tujunga Wash were approximated. Estimated flows for the four sampling dates in 2005 are summarized in **Table 11**.

Table 11
Estimated Flows – 2005

	Flow (cubic feet per second)							
Sampling Date	Outlet of Tujunga Ponds	Haines Canyon Creek leaving the site	Big Tujunga Wash					
4/7/2005	14.8	94.9	151.2					
6/30/2005	13.3	20.3	18.2					
10/25/2005	12.7	16.5	0.8					
12/22/2005	3.5	8.6	1.7					

Comparison of Results with Baseline Data

Water quality in December 2005 was similar to baseline conditions for most parameters except as noted below. Substantially higher bacteria and turbidity levels were observed in the 4/18/00 samples due to a rain event. Phosphorus levels were also higher in the 4/18/00 samples than in December 2005, perhaps due to release from sediments resulting from the rain event.

Comparison of Results with Aquatic Life Criteria

Table 12 and **Table 16** present objectives established by the Regional Board for protection of beneficial uses in Big Tujunga Wash including wildlife habitat. EPA's criteria for freshwater aquatic life are presented in **Table 12** through **Table 15** and **Table 17**.

Table 12
National and Local Recommended Water Quality Criteria - Freshwaters

D. A	Basin Plan		EPA Criteria	
Parameter	Objectives ^a	CMC	CCC	Human Health
Temperature (°C)	b	See Table 15	See Table 15	
Dissolved oxygen (mg/L)	>7.0 mean >5.0 min	5.0 ^c (warmwater, early life stages, 1-day minimum)	6.0° (warmwater, early life stages, 7-day mean)	
рН	6.5 - 8.5		$6.5 - 9.0^{d,e}$	5.0-9.0 ^{d,e}
Total residual chlorine (mg/L)	0.1	0.019 ^{d,e}	0.011 ^{d,e}	4.0 (maximum residual disinfectant level goal)
Fecal coliform (MPN/100 ml)	200 ^f (water contact recreation)			Swimming standards: 33 ^g (geometric mean for enterococci) 126 ^g (geometric mean for <i>E. coli</i>)
Ammonia-nitrogen (mg/L)	See Table 16	See Tables 13, 14, and 15	See Tables 13, 14, and 15	
Nitrite-nitrogen (mg/L)	1			1 (primary drinking water std.)
Nitrate-nitrogen (mg/L)	10			10 (primary drinking water std.)
Total phosphorus (mg/L)		$<0.05-0.1^{\rm e}$ (recommendation for streams, no criterion)		
Turbidity (NTU)	h	i	i	5 (secondary drinking water standard) 0.5 - 1.0 (std. for systems that filter)

-- No criterion

CMC Criteria Maximum Concentration or acute criterion

CCC Criteria Continuous Concentration or chronic criterion

- a Source: California Regional Water Quality Control Board, Los Angeles Region. 1994. Water Quality Control Plan (Basin Plan).
- b Narrative criterion: "The natural receiving water temperature of all regional waters shall not be altered unless it can be demonstrated to the satisfaction of the Regional Board that such alteration in temperature does not adversely affect beneficial uses."
- c Source: EPA. 1986. Ambient Water Quality Criteria for Dissolved Oxygen. EPA 440-5-86-003. Washington, D.C.
- d Source: EPA. 1999. National Recommended Water Quality Criteria Correction. EPA 822-Z-99-001. Washington, D.C.
- e Source: EPA. 1986. Quality Criteria for Water. EPA 440/5-86-001. Washington, D.C.
- f Standard based on a minimum of not less than four samples for any 30-day period, 10% of total samples during any 30-day period shall not exceed 400/100ml.
- g Source: EPA. 1986. Ambient Water Quality Criteria for Bacteria 1986. EPA 440-5-84-002. Washington, D.C.
- h Narrative criterion: "Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses."
- i Narrative criterion for freshwater fish and other aquatic life: "Settleable and suspended solids should not reduce the depth of the compensation point for photosynthetic activity by more than 10 percent from the seasonally established norm for aquatic life."

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Table 13

Numeric Values of the Criterion Maximum Concentration (CMC) with Salmonids

Present and Absent and the Criterion Continuous Concentration (CCC) for

Ammonia Nitrogen (mg/L)

	CMC	CMC	
pН	with Salmonids Present	with Salmonids Absent	CCC
6.5	32.6	48.8	3.48
6.6	31.3	46.8	3.42
6.7	29.8	44.6	3.36
6.8	28.1	42.0	3.28
6.9	26.2	39.1	3.19
7.0	24.1	36.1	3.08
7.1	22.0	32.8	2.96
7.2	19.7	29.5	2.81
7.3	17.5	26.2	2.65
7.4	15.4	23.0	2.47
7.5	13.3	19.9	2.28
7.6	11.4	17.0	2.07
7.7	9.65	14.4	1.87
7.8	8.11	12.1	1.66
7.9	6.77	10.1	1.46
8.0	5.62	8.4	1.27
8.1	4.64	6.95	1.09
8.2	3.83	5.72	0.935
8.3	3.15	4.71	0.795
8.4	2.59	3.88	0.673
8.5	2.14	3.2	0.568
8.6	1.77	2.65	0.480
8.7	1.47	2.2	0.406
8.8	1.23	1.84	0.345
8.9	1.04	1.56	0.295
9.0	0.885	1.32	0.254

Source: EPA. 1999. 1999 Update of Ambient Water Quality Criteria for Ammonia. EPA 822-R-99-014. Washington, D.C.

Table 14
Temperature and pH-Dependent Values of the Ammonia-Nitrogen CCC (Chronic Criterion) for Fish Early Life Stages Absent (mg N/L)

nII.				Tei	mperatur	e (°Celsi	ius)			
pН	0-7	8	9	10	11	12	13	14	15*	16*
6.5	10.8	10.1	9.51	8.92	8.36	7.84	7.35	6.89	6.46	6.06
6.6	10.7	9.99	9.37	8.79	8.24	7.72	7.24	6.79	6.36	5.97
6.7	10.5	9.81	9.20	8.62	8.08	7.58	7.11	6.66	6.25	5.86
6.8	10.2	9.58	8.98	8.42	7.90	7.40	6.94	6.51	6.10	5.72
6.9	9.93	9.31	8.73	8.19	7.68	7.20	6.75	6.33	5.93	5.56
7.0	9.60	9.00	8.43	7.91	7.41	6.95	6.52	6.11	5.73	5.37
7.1	9.20	8.63	8.09	7.58	7.11	6.67	6.25	5.86	5.49	5.15
7.2	8.75	8.20	7.69	7.21	6.76	6.34	5.94	5.57	5.22	4.90
7.3	8.24	7.73	7.25	6.79	6.37	5.97	5.60	5.25	4.92	4.61
7.4	7.69	7.21	6.76	6.33	5.94	5.57	5.22	4.89	4.59	4.30
7.5	7.09	6.64	6.23	5.84	5.48	5.13	4.81	4.51	4.23	3.97
7.6	6.46	6.05	5.67	5.32	4.99	4.68	4.38	4.11	3.85	3.61
7.7	5.81	5.45	5.11	4.79	4.49	4.21	3.95	3.70	3.47	3.25
7.8	5.17	4.84	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89
7.9	4.54	4.26	3.99	3.74	3.51	3.29	3.09	2.89	2.71	2.54
8.0	3.95	3.70	3.47	3.26	3.05	2.86	2.68	2.52	2.36	2.21
8.1	3.41	3.19	2.99	2.81	2.63	2.47	2.31	2.17	2.03	1.91
8.2	2.91	2.73	2.56	2.40	2.25	2.11	1.98	1.85	1.74	1.63
8.3	2.47	2.32	2.18	2.04	1.91	1.79	1.68	1.58	1.48	1.39
8.4	2.09	1.96	1.84	1.73	1.62	1.52	1.42	1.33	1.25	1.17
8.5	1.77	1.66	1.55	1.46	1.37	1.28	1.20	1.13	1.06	0.990
8.6	1.49	1.40	1.31	1.23	1.15	1.08	1.01	0.951	0.892	0.836
8.7	1.26	1.18	1.11	1.04	0.976	0.915	0.858	0.805	0.754	0.707
8.8	1.07	1.01	0.944	0.885	0.829	0.778	0.729	0.684	0.641	0.601
8.9	0.917	0.860	0.806	0.756	0.709	0.664	0.623	0.584	0.548	0.513
9.0	0.790	0.740	0.694	0.651	0.610	0.572	0.536	0.503	0.471	0.442

^{*} At 15° C and above, the criterion for fish ELS absent is the same as the criterion for fish ELS present. Source: EPA. 1999. 1999 Update of Ambient Water Quality Criteria for Ammonia. EPA 822-R-99-014. Washington, D.C.

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Table 15
Temperature and pH-Dependent Values of the Ammonia-Nitrogen CCC (Chronic Criterion) for Fish Early Life Stages Present (mg N/L)

nII.				Ter	nperatur	e (° Cels	ius)			
pН	0	14	16	18	20	22	24	26	28	30
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21	2.82	2.48	2.18
7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08	2.70	2.38	2.09
7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92	2.57	2.26	1.99
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57	2.26	1.98	1.74
7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94	1.71	1.50	1.32
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.80	2.80	2.54	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02	0.897
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.879	0.773
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.973	0.855	0.752	0.661
8.3	1.52	1.52	1.39	1.22	1.07	0.941	0.827	0.727	0.639	0.562
8.4	1.29	1.29	1.17	1.03	0.906	0.796	0.700	0.615	0.541	0.475
8.5	1.09	1.09	0.990	0.870	0.765	0.672	0.591	0.520	0.457	0.401
8.6	0.920	0.920	0.836	0.735	0.646	0.568	0.499	0.439	0.386	0.339
8.7	0.778	0.778	0.707	0.622	0.547	0.480	0.422	0.371	0.326	0.287
8.8	0.661	0.661	0.601	0.528	0.464	0.408	0.359	0.315	0.277	0.244
8.9	0.565	0.565	0.513	0.451	0.397	0.349	0.306	0.269	0.237	0.208
9.0	0.486	0.486	0.442	0.389	0.342	0.300	0.264	0.232	0.204	0.179

Source: EPA. 1999. 1999 Update of Ambient Water Quality Criteria for Ammonia. EPA 822-R-99-014. Washington, D.C.

Table 16
Maximum One-Hour Average Concentration for Total Ammonia (mg/L NH₃)

nШ			Temp	erature (°C	elsius)		
pН	0	5	10	15	20	25	30
6.50	35	33	31	30	29	20	14.3
6.75	32	30	28	27	27	18.6	13.2
7.00	28	26	25	24	23	16.4	11.6
7.25	23	22	20	19.7	19.2	13.4	9.5
7.50	17.4	16.3	15.5	14.9	14.6	10.2	7.3
7.75	12.2	11.4	10.9	10.5	10.3	7.2	5.2
8.00	8.0	7.5	7.1	6.9	6.8	4.8	3.5
8.25	4.5	4.2	4.1	4.0	3.9	2.8	2.1
8.50	2.6	2.4	2.3	2.3	2.3	1.71	1.28
8.75	1.47	1.40	1.37	1.38	1.42	1.07	0.83
9.00	0.86	0.83	0.83	0.86	0.91	0.72	0.58

Source: California Regional Water Quality Control Board, Los Angeles Region. 1994. Water Quality Control Plan (Basin Plan). Taken from EPA. 1986. Quality Criteria for Water. EPA 440/5-86-001. Washington, D.C.

Table 17
Example Calculated Values for Maximum Weekly Average Temperature for Growth and Short-term Maxima for Survival of Juvenile and Adult Fishes During the Summer

Species	Growth (°Celsius)	Maxima (°Celsius)
Black crappie	27	
Bluegill	32	35
Channel catfish	32	35
Emerald shiner	30	
Largemouth bass	32	34
Brook trout	19	24

Source: EPA. 1986. Quality Criteria for Water. EPA 440/5-86-001. Washington, D.C.

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DISCUSSION

2005 Results

Results from the four quarters of sampling in 2005 are described by parameter in **Table 18**. (Note -2004/2005 was one of the highest record rainfall years for the Los Angeles area.)

Table 18
Discussion of 2005 Sampling Results

Parameter	Discussion
Temperature	As with all preceding years, temperatures observed in 2005 were below levels of concern for growth and survival of warmwater fish species (see Table 17). Highest temperatures were observed in Big Tujunga Wash in June.
	• Seasonal fluctuations of up to 4 degrees were observed. December readings were generally lowest, and June readings were the highest.
Dissolved oxygen	• DO readings in 2005 were above the recommended minimum for warmwater fish species of 5.0 mg/L, except at the inflow to and outflow from the Tujunga Ponds in the third quarter (4.5 and 4.8 mg/L, respectively).
	• Seasonal fluctuations of up to 6.3 mg/L in DO were observed. Highest DO readings were generally observed in the first quarter (April).
рН	• The pH values in 2005 were within the 6.5 to 8.5 range identified in the Basin Plan except at Haines Canyon Creek in the first quarter (9.0) and at Big Tujunga Wash in the first, third and fourth quarters (9.0, 8.6 and 8.6, respectively).
	• For any given sampling date in 2005, the pH of waters flowing into and out of the Tujunga Ponds varied by 0.1 unit or less.
	• The maximum seasonal pH fluctuation at any station in 2005 was 1.3 units.
Total residual chlorine	As in all preceding years, residual chlorine was not detected in any samples.
Nitrogen	Nitrite-nitrogen was not detected in samples during 2005.
	• Ammonia-nitrogen was not detected in the first and second quarters. In the third quarter, ammonia-nitrogen was detected in low concentrations (<0.1 mg/L) in the inflow to and outflow from the Tujunga Ponds. In the fourth quarter, ammonia-nitrogen was detected at all sites in concentrations ranging from 0.06 to 0.17 mg/L. All observed concentrations were below levels of concern for fish (chronic and acute toxicity) (see Table 13 through Table 15).
	• Kjeldahl nitrogen (organic nitrogen plus ammonia) readings were consistently low (<1 mg/L) at all stations on all dates.
	• Nitrate-nitrogen was higher in waters flowing into the Tujunga Ponds than in the outflow (up to approximately 2 mg/L difference) except in the third quarter when the values for inflow and outflow were similar (2.8 and 2.9 mg/L, respectively). Nitrate levels in Haines Canyon Creek were similar to or lower than the levels in the outflow from the ponds. All nitrate-nitrogen readings in 2005 were below the drinking water standard of 10 mg/L.

Table 18 (Continued) Discussion of 2005 Sampling Results

Parameter	Discussion
Phosphorus	• At all stations for all four quarters of 2005, total phosphorus levels were below 0.1 mg/L, the upper value of EPA's recommendation for streams (<0.05 – 0.1 mg/L).
Glyphosate	Glyphosate readings on all sampling dates were below the detection limit.
Chlorpyrifos	Chlorpyrifos and the other pesticides tested using EPA's analytical method 625 were not detected at any station in 2005.
Turbidity	• Turbidity values in 2005 were generally similar to those of 2001, 2002, 2003 and 2004, and were below the secondary drinking water standard of 5 NTU.
Bacteria	• Fecal coliform levels in 2005 ranged from 2 to 170 MPN/100 mL, and were below the water contact recreation standard of 200 MPN/100 mL for all four quarters at all stations.
	Total coliform levels were much higher than fecal coliform levels (up to 16,000 MPN/100 mL), but total coliform spikes (over 50,000 – 100,000 MPN/100 mL) were not observed in 2005.

Results for the Five-year Monitoring Period (2001 – 2005)

The following summarizes the water quality trends observed over the 5-year monitoring period. During the 5-year period, a total of 71 samples (not counting the duplicate samples for parameters analyzed in the laboratories) were taken:

- 21 samples from the inflow to Tujunga Ponds (four quarters for 5 years)
- 21 samples from the outflow from Tujunga Ponds (four quarters for 5 years)
- 21 samples from Haines Canyon Creek exiting the site (four quarters for 5 years)
- 8 samples when flow was observed in Big Tujunga Wash (first quarters of 2001 and 2003, fourth quarter of 2004 and all four quarters of 2005)

Temperatures

Observed temperatures have ranged from approximately 11 to 26 °C. Seasonal fluctuations in any given year ranged from 4 to 9 degrees; highest temperatures were generally observed during the second quarter (June/July), followed by the third (September/October), first (March/April), and fourth (December) quarters. Temperatures in the inflow to and outflow from Tujunga Ponds were similar. Temperatures in Haines Canyon Creek exiting the site were typically lower than in Tujunga Ponds by approximately 1 degree during the warmer periods (second and third quarters) and by approximately 3 degrees during the cooler periods (first and fourth quarters).

During the period of the sampling program, temperatures observed at the mitigation bank sampling sites supported the growth and survival of warmwater fish species.

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Dissolved Oxygen

Observed DO levels at the four sampling stations ranged from 4.5 to 11.5 mg/L. Only three DO readings below 5.0 mg/L (the recommended minimum for warmwater fish species) have been recorded (in the inflow to the ponds in March 2001 and in the inflow to and outflow from the ponds in the third quarter of 2005). In Haines Canyon Creek leaving the site, DO and temperature appear to have a negative correlation (higher DO values are observed on dates with lower temperature). In addition, DO levels at Haines Canyon Creek exiting the site are approximately 2 mg/L higher than in the Tujunga Ponds.

During the period of the sampling program, DO levels observed at the mitigation bank sampling sites supported the minimal survival requirements of most warmwater fish species. DO levels in Haines Canyon Creek leaving the site and in Big Tujunga Wash were consistently (with one exception) above 7 mg/L and therefore supported the requirements of early life stages of warmwater fish species. DO levels in the Tujunga Ponds were not consistently at this level. Lower flow conditions and oxygen-consuming algal die-off result in periodic lower DO levels in the ponds.

pН

Levels of pH in excess of Basin Plan standards were observed in Haines Canyon Creek exiting the site in the first quarters of 2003 and 2005 (8.7 and 9.0, respectively) and in Big Tujunga Wash in the first, third and fourth quarters of 2005 (9.0, 8.6 and 8.6, respectively). Observed pH levels were not below 6.5 at any station on any sampling date.

In general, pH values observed in Haines Canyon Creek leaving the site (overall average of 8.2 and ranging from 7.7 to 9.0) were approximately 1 unit higher than values observed in the ponds (overall average of 7.1 and ranging from 6.8 to 7.5 in the inflow, and overall average of 7.2 and ranging from 6.7 to 7.7 in the outflow). Based on the limited number of samples taken from Big Tujunga Wash (seven samples total), pH values in the wash are similar to those in Haines Canyon Creek exiting the site.

During the period of the sampling program, pH levels observed at the mitigation bank sampling sites were generally within the 6.5 to 8.5 range identified in the Basin Plan and protective of aquatic life. Levels of pH in Haines Canyon Creek leaving the site and in Big Tujunga Wash are high compared to many freshwater systems, perhaps reflecting alkaline soils and/or specific algal conditions at the time of sampling.

Nutrients

Ammonia-nitrogen levels were generally below the detection limit. Ammonia-nitrogen levels above the detection limit were observed in the third quarter of 2001 in Haines Canyon Creek exiting the site (0.093 mg/L in one sample, non-detect in the duplicate sample), in the third quarter of 2005 in the Tujunga Ponds (0.08 to 0.09 mg/L), and in the fourth quarter of 2005 at all stations (0.06 to 0.17 mg/L and one non-detect in a duplicate sample from the inflow to Tujunga Ponds).

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Nitrite-nitrogen levels were also generally below the detection limit. Nitrite-nitrogen levels above the detection limit were observed in the inflow to Tujunga Ponds in the second quarters of 2001, 2003 and 2004 (0.10 mg/L, 0.11 mg/L in one sample and non-detect in the duplicate sample, and 0.35 mg/L in one sample and non-detect in the duplicate sample).

Nitrate-nitrogen levels were generally below the drinking water standard of 10 mg/L. Nitrate-nitrogen concentrations approached or slightly exceeded 10 mg/L in the inflow to Tujunga Ponds in the first quarter of 2003 (10.2 mg/L) and in the fourth quarter of 2002 (9.9 mg/L). Nitrate levels were generally higher in the inflow to the Tujunga Ponds (overall average of 7.6 mg/L, ranging from 2.8 to 10.2 mg/L) than in the outflow from the ponds (overall average of 5.7 mg/L, ranging from 2.6 to 7.9 mg/L), and generally higher in the ponds than in Haines Canyon Creek exiting the site (overall average of 4.5 mg/L, ranging from 0.44 to 7.2 mg/L). Nitrate levels observed in 2005 were generally lower (by 2 to 4 mg/L on average) than the levels observed in the previous four years.

Total phosphorus values were below 0.1 mg/L, the upper value of EPA's recommendation for streams (<0.05-0.1 mg/L), except in the first quarter of 2003. Higher values of up to 0.19 mg/L were observed in the first quarter of 2003 from Big Tujunga Wash and in Haines Canyon Creek (possibly associated with the higher flows due to releases from the Big Tujunga Dam preceding the sampling date).

During the period of the sampling program, excessive nutrient levels were not observed at the mitigation bank sampling sites. Ammonia levels were below levels of concern for fish toxicity (acute and chronic standards for all life stages). Nitrate levels were always (with one exception) below primary drinking water standards but were not low for freshwater systems. [Note, there is no aquatic health guideline for nitrate since it does not represent a direct threat to stream organisms.] Nitrite levels were well below the primary drinking water standard (1 mg/L) at all stations for all sampling periods. Phosphorus levels were below the level (0.1 mg/L) associated with nuisance growth of algae except in the first quarter of 2003. An increase in nutrient concentrations since the beginning of operations at the upstream golf course (June 2004) was not observed.

Turbidity

Turbidity levels were generally below the drinking water standard of 5 NTU. Higher levels (up to 48 NTU) were observed during periods of high flows in the first quarters of 2001 and 2003 in Haines Canyon Creek and Big Tujunga Wash. In addition, turbidity of 5.4 NTU was detected in one sample in the third quarter of 2004 in the inflow to Tujunga Ponds, although the duplicate sample was 3.2 NTU. During the period of the sampling program, turbidity levels which adversely affected beneficial uses were not observed.

Bacteria

During the period of the sampling program, fecal coliform levels were generally safe for body-contact recreation (i.e., below the water contact recreation standard of 200 MPN/100 mL). Higher levels (up to 900 MPN/100 mL) were observed as follows: the third quarter of 2001 in one sample from the Tujunga Ponds outflow and in one sample from Haines Canyon Creek

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leaving the site; fourth quarter of 2002 in one sample from Haines Canyon Creek leaving the site; first quarter of 2004 in one sample from Tujunga Ponds outflow and in both duplicate samples in Haines Canyon Creek; and third quarter of 2004 in one sample from Haines Canyon Creek. As an average of the two duplicate samples, 200 MPN/100 mL was exceeded only twice, in the third quarter of 2001 in the outflow from Tujunga Ponds and in the first quarter of 2004 in Haines Canyon Creek. [It should be noted that the 200 MPN/100 mL standard for fecal coliform is used for reference only. Sufficient samples were not taken as part of this program since the standard calls for not less than four samples for any 30-day period.]

Chlorine and Pesticides

Total residual chlorine readings were below the detection limit at all stations for all sampling dates. Similarly, glyphosate and chlorpyrifos (added to the list of sampling parameters starting in the first and fourth quarters of 2004, respectively) were not detected at any station.

Conclusion

Overall, water quality conditions at the mitigation bank generally supported warmwater aquatic life and were protective of human health during body-contact recreation despite. Seasonal and flow-related fluctuations were observed for some parameters. Nitrate concentrations were substantially lower in 2005 compared to other years. However, overall water quality conditions were relatively stable over the 5-year sampling program despite the varying rainfall conditions in the Los Angeles area, from one of the lowest recorded (approximately 4 inches in 2001/2002) to one of the highest (approximately 37 inches in 2004/2005).

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Glossary

Ammonia-Nitrogen – NH_3 -N is a gaseous alkaline compound of nitrogen and hydrogen that is highly soluble in water. Un-ionized ammonia (NH_3) is toxic to aquatic organisms. The proportions of NH_3 and ammonium (NH_4 ⁺) and hydroxide (OH⁻) ions are dependent on temperature, pH, and salinity.

Chlorine, residual – The chlorination of water supplies and wastewaters serves to destroy or deactivate disease-producing organisms. Residual chlorine in natural waters is an aquatic toxicant.

Coliform Bacteria – several genera of bacteria belonging to the family Enterobacteriaceae. Based on the method of detection, the coliform group is historically defined as facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas and acid formation within 48 hours at 35°C.

Fecal Coliform Bacteria – part of the intestinal flora of warm-blooded animals. Presence in surface waters is considered an indication of pollution.

Kjeldahl Nitrogen – Named for the laboratory technique used for detection, Kjeldahl nitrogen includes organic nitrogen and ammonia nitrogen.

Nitrate-Nitrogen – NO3⁻-N is an essential nutrient for many photosynthetic autotrophs.

Nitrite-Nitrogen – NO2⁻-N is an intermediate oxidation state of nitrogen, both in the oxidation of ammonia to nitrate and in the reduction of nitrate.

Orthophorus – the reactive form of phosphorus, commonly used as fertilizer.

pH – the hydrogen ion activity of water (pH) is measured on a logarithmic scale, ranging from 0 to 14. The pH of "pure" water at 25°C is 7.0 (neutral). Low pH is acidic; high pH is basic or alkaline.

Total Phosphorus – In natural waters, phosphorus occurs almost solely as orthophosphates, condensed phosphates, and organically bound phosphate. Phosphorus is essential to the growth of organisms.

Turbidity – attributable to the suspended and colloidal matter in water, including clay, silt, finely divided organic and inorganic matter, soluble colored organic compounds, and plankton and other microscopic organisms. The reduction of clearness in turbid waters diminishes the penetration of light and therefore can adversely affect photosynthesis.

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APPENDIX A

BIG TUJUNGA WASH MITIGATION BANK WATER QUALITY MONITORING PROGRAM

LABORATORY RESULTS

BIG TUJUNGA WASH MITIGATION BANK WATER QUALITY MONITORING PROGRAM

APRIL 2005 LABORATORY RESULTS



Laboratory Report

for

Applied Research Dept, MWH (Darren Giles) 327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles Fax: (626) 359-3593

DATE OF ISSUE

MAY 1 7 2005

MULLS Added

MWH LABORATORIES

LXG Linda Geddes Project Manager nelac 1 O1114CA
Report#: 145899
BIG-TJ

***Report#: Page

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 19 page[s].

(W) MWH Laboratories

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MWH Laboratories

750 Royal Oaks Drive, Monrovia, CA 91016 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue Customer Code: ARD-DG

Monrovia, CA 91016 PO#: 1342289.5620.051801

Attn: Darren Giles Group#: 145899 Phone: (626) 303-5945 Project#: BIG-TJ

> Proj Mgr: Linda Geddes Phone: (626) 386-1163

The following samples were received from you on 04/07/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample	Id	Tests Sc	hadulad	Matrix		Sample	Date
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2504070211	SITE 1	INFLOW	TO TJ PO	ND 1	Water		07-apr-	-2005 12:25:00
			@DIAZEDD		GLYPHOS	NH3	NO2-N	NO3
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2504070212	SITE 1	INFLOW			Water			2005 12:40:00
			@DIAZEDD		GLYPHOS	NH3	NO2-N	NO3
			OPO4	T-P	TKN	TOTCOL		
2504070213	SITE 2	OUTFLO	W FROM TJ		Water			2005 13:25:00
	Adapting 33		@DIAZEDD		GLYPHOS			NO3
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2504070217	SITE 3	BIG TU			Water			2005 11:35:00
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			OPO4	T-P	TKN	TOTCOL	TURB	
2504070218	SITE 4	HAINES	And the first of the second of the second	The second second second second second	Water	radiostro rada el 1944.		2005 10:00:00
			@DIAZEDD		GLYPHOS	NH3	NO2-N	NO3
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2504070219	SITE 4	HAINES			Water			2005 10:15:00
and the end of the feet of the fire		. I se site del trate	@DIAZEDD	FECCOL	GLYPHOS	NH3	NO2-N	NO3
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					· · · · · · · · · · · · · · · · · · ·			

Test Acronym Description

Test Acronym	Description
@DIAZEDD	Diazinon/Chlorpyrifos by GCMS Fecal Coliform Bacteria
GLYPHOS NH3 NO2-N	Glyphosate Ammonia Nitrogen Washington and Ammonia Nitrogen by IC

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue Monrovia, CA 91016

Attn: Darren Giles Phone: (626) 303-5945

Customer Code: ARD-DG

PO#: 1342289.5620.051801

Group#: 145899 Project#: BIG-TJ

Proj Mgr: Linda Geddes Phone: (626) 386-1163

Test Acronym Description

Test Acronym	Description
NO3	Nitrate as Nitrogen by IC
OPO4	Orthophosphate-P
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen (1988) kan
TOTCOL	Total Coliform Bacteria
TURB	Turbidity in the control of the cont



Group Comments

Revised report; OPO4 data entry error for Site 3 Big TJ Wash 1 and Wash 2. TKN result for Site 2 Outflow from TJ Pond 1 changed from 4.10 to 0.27 mg/L due to sample mixup. Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA. ELAP 2261



Monrovia , CA 91016

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue

Samples Received

07-apr-2005 15:49:48

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2504070211	SITE 1 INFLOW	TO TJ POND	1		
04/07/05 04/14/05 04/07/05 04/07/05 04/07/05 04/13/05 04/07/05	Fecal Colifor Kjeldahl Nitr Nitrate as Ni Orthophosphat Total Colifor Total phospho Turbidity	ogen trogen by IC e-P m Bacteria	2 0.44 5.4 0.022 500 0.021 0.50	10	MPN/100 mL mg/l mg/l mg/l MPN/100 mL mg/l NTU	2.0 0.20 0.20 0.010 2.0 0.010 0.050
	2504070212	SITE 1 INFLOW	TO TJ POND	2		
04/07/05 04/14/05 04/07/05 04/07/05 04/07/05 04/13/05 04/07/05	Fecal Colifor Kjeldahl Nitra Nitrate as Ni Orthophosphate Total Colifor Total phosphos Turbidity	ogen trogen by IC e-P m Bacteria	2 0.31 5.4 0.021 220 0.024 0.70	10	MPN/100 mL mg/l mg/l mg/l MPN/100 mL mg/l NTU	2.0 0.20 0.20 0.010 2.0 0.010 0.050
	2504070213	SITE 2 OUTFLO	W FROM TJ PO	ND 1		
04/07/05 05/12/05 04/07/05 04/07/05 04/07/05 04/13/05 04/07/05	Fecal Colifor Kjeldahl Nitro Nitrate as Nit Orthophosphate Total Colifor Total phosphot Turbidity	ogen trogen by IC e-P m Bacteria	8 0.27 3.2 0.025 500 0.022 0.60	10	MPN/100 mL mg/l mg/l mg/l MPN/100 mL mg/l NTU	2.0 0.20 0.20 0.010 2.0 0.010 0.050
	2504070214	SITE 2 OUTFLOW	V FROM TJ PO	ND 2		



Applied Research Dept, MWH (Darren Giles) Darren Giles 327 West Maple Avenue Monrovia , CA

91016

Samples Received

07-apr-2005 15:49:48

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2504070214	SITE 2 OUTFLOW	FROM TJ PO	OND 2		
04/07/05 04/14/05 04/07/05 04/07/05 04/07/05 04/13/05 04/07/05	Fecal Coliform Kjeldahl Nitro Nitrate as Nit Orthophosphate Total Coliform Total phosphor Turbidity	gen rogen by IC -P Bacteria	13 0.30 3.6 0.026 700 0.022 0.50	10	MPN/100 mL mg/l mg/l mg/l MPN/100 mL mg/l NTU	2.0 0.20 0.20 0.010 2.0 0.010 0.050
	2504070216	SITE 3 BIG TJ W	ASH 1			
04/07/05 04/14/05 04/07/05 04/07/05 04/13/05 04/07/05	Fecal Coliform Kjeldahl Nitro Orthophosphate Total Coliform Total phosphor Turbidity	gen -P Bacteria	2 0.23 0.011 170 0.010 1.6		MPN/100 mL mg/1 mg/1 MPN/100 mL mg/1 NTU	2.0 0.20 0.010 2.0 0.010 0.050
: :	2504070217	SITE 3 BIG TJ W	ASH 2			
04/07/05 04/14/05 04/07/05 04/07/05 04/07/05	Fecal Coliform Kjeldahl Nitro Orthophosphate Total Coliform Turbidity	gen -P	2 0.24 0.012 21 1.3		MPN/100 mL mg/l mg/l MPN/100 mL NTU	2.0 0.20 0.010 2.0 0.050
	2504070218	SITE 4 HAINES C	ANYON CREE	K 1		
04/07/05	Fecal Coliform	Bacteria	8		MPN/100 mL	2.0



Monrovia , CA

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue

91016

Samples Received

07-apr-2005 15:49:48

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL	
	2504070218	SITE 4 HAINES	CANYON CRE	EEK 1			_
04/14/05 04/07/05 04/07/05	Total Coliform		0.21 500 1.4		mg/l MPN/100 mL NTU	0.20 2.0 0.050	
	2504070219	SITE 4 HAINES	CANYON CRE	EK 2			
04/07/05 04/14/05 04/07/05 04/13/05 04/07/05	Kjeldahl Nitro Total Coliform Total phosphor	gen Bacteria	4 0.54 21 0.012 1.3		MPN/100 mL mg/l MPN/100 mL mg/l NTU	0.20	



Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received 04/07/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE	1 INFLOW T	O TJ 1	POND 1 (250	4070211) Sampled	on 04/0	7/05 12	2:25	
	04/07/05 15:06		(ML/SM9221C) Fecal Coliform Bacteria	2	MPNM	2.0	1
	04/08/05 00:00	267909	(ML/EPA 547)) Glyphosate	ND	ug/l	6.0	1
	04/11/05 00:00	268065	(ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
	04/07/05 16:57	267757	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	04/07/05 16:57	267761	(E300.0/ SW7056)	Nitrate as Nitrogen by IC	5.4	mg/l	0.20	2
	04/07/05 17:00	267784	(SM4500P-E)	Orthophosphate-P	0.022	mg/1	0.010	1
	04/13/05 14:46	268531	(S4500PE/ 365.1)	Total phosphorus-P	0.021	mg/l	0.010	1
	04/14/05 17:23	268802	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.44	mg/l	0.20	1
	04/07/05 15:06		(ML/SM9221B)	Total Coliform Bacteria	500	MPNM	2.0	1.
	04/07/05 15:58	267837	(ML/EPA 180.1)	Turbidity	0.50	NTU	0.050	1
			Diazinon/C	hlorpyrifos by GCMS				4
	04/19/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1.
	04/19/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE	1 INFLOW T	O TJ	POND 2 (25	04070212) Sample	d on 04/0	7/05 1:	2:40	
	04/07/05 15:11		(ML/SM9221C) Fecal Coliform Bacteria	2	MPNM	2.0	1
	04/08/05 00:00	267909	(ML/EPA 547) Glyphosate	ND	ug/l	6.0	1
	04/11/05 00:00	268065	(ML/EPA 350.1) Ammonia Nitrogen	ND	mg/l	0.050	1
	04/07/05 17:09	267757	(ML/EPA 300.0) Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	04/07/05 17:09	267761	(E300.0/ SW705	6) Nitrate as Nitrogen by IC	5.4	mg/1	0.20	2
	04/07/05 17:00	267784	(SM4500P-E) Orthophosphate-P	0.021	mg/l	0.010	1
	04/13/05 14:46	268531	(S4500PE/ 365.	l) Total phosphorus-P	0.024	mg/l	0.010	1
	04/14/05 15:32	269038	(ML/EPA 351.2) Kjeldahl Nitrogen	0.31	mg/l	0.20	1
	04/07/05 15:11		(ML/SM9221B) Total Coliform Bacteria	220	MPNM	2.0	1
	04/07/05 15:58	267837	(ML/EPA 180.1) Turbidity	0.70	NTU	0.050	1
			Diazinon/	Chlorpyrifos by GCMS				
	04/19/05 00:00		(EPA 625 MODSU		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUI	B) Bolstar (Sulprofos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUI	B) Chlorpyrifos	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Demeton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Dichlorvos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Disulfoton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Dimethoate	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Ethoprop (Ethoprophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	B) Fenchlorophos (Ronnel)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Fensulfothion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Fenthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	B) Merphos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	B) Mevinphos (Phosdrin)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	B) Malathion	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUE) Parathion-methyl	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE) Phorate	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB) Tokuthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB) Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB	Trichloronate	ND	ng/l	10	1



Prepared Analyzed	QC Ref# Method	Analyte	Result	Units	MRL	Dilution
SITE 2 OUTFLOW	FROM TJ POND 1 (2504070213)	Sampled on	04/07/05	13:25	
04/07/05 15:14	(ML/SM9221C)) Fecal Coliform Bacteria	8	MPNM	2.0	1
04/08/05 00:00) 267909 (ML/EPA 547)) Glyphosate	ND	ug/l	6.0	1
04/11/05 00:00) 268065 (ML/EPA 350.1)	Ammonia Nitrogen	ND	mg/l	0.050	1
04/07/05 17:32	2 267757 (ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
04/07/05 17:32	267761 (E300.0/SW7056)	Nitrate as Nitrogen by IC	3.2	mg/l	0.20	2
04/07/05 17:00) 267784 (SM4500P-E)	Orthophosphate-P	0.025	mg/l	0.010	1
04/13/05 14:46	5 268531 (S4500PE/ 365.1)	Total phosphorus-P	0.022	mg/l	0.010	1
05/12/05 16:46	5 271593 (ML/EPA 351.2)	Kjeldahl Nitrogen	0.27	mg/l	0.20	1
04/07/05 15:14	(ML/SM9221B)	Total Coliform Bacteria	500	MPNM	2.0	1
04/07/05 15:58	3 267837 (ML/EPA 180.1)	Turbidity	0.60	NTU	0.050	1
04/19/05 00:00		hlorpyrifos by G				
04/19/05 00:00			ND	ng/l	5.0	1
04/19/05 00:00	•	Bolstar (Sulprofos)	ND	ng/l	10	1
04/19/05 00:00	,		ND	ng/l	5.0	1
04/19/05 00:00			ND	ng/l	10	1
04/19/05 00:00	,		ND	ng/l	10	1
04/19/05 00:00	, ,		ND	ng/1	10	1
04/19/05 00:00		Ethoprop (Ethoprophos)	ND	ng/l	5.0	1
04/19/05 00:00		Fenchlorophos (Ronnel)	ND ND	ng/1	10	1
04/19/05 00:00	,	•	ND	ng/1	10	1
04/19/05 00:00	,		ND	ng/l ng/l	10	1
04/19/05 00:00			ND	"	10	
04/19/05 00:00	, =====,	Mevinphos (Phosdrin)	ND	ng/1	10	1
04/19/05 00:00	,	_	ND	ng/1		1
04/19/05 00:00	•		ND ND	ng/l	5.0	
04/19/05 00:00	(EPA 625 MODSUB)	•	ND ND	ng/l	10	1
04/19/05 00:00	(EPA 625 MODSUB)		ND ND	ng/l	10	1
04/19/05 00:00		Tetrachlorovinphos (Stirop)		ng/l		
04/19/05 00:00	(EPA 625 MODSUB)	• • •	ND ND	ng/l	10	1
04,15,05 00.00	(527 523 100000)	1++CHAUTOHALE	ND	ng/l	10	1

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE	2 OUTFLOW	FROM	TJ POND 2	(2504070214)	Sampled on	04/07/05	13:40	
	04/07/05 15:17		(ML/SM9221C) Fecal Coliform Bacteria	13	MPNM	2.0	1
	04/08/05 00:00	267909	(ML/EPA 547) Glyphosate	ND	ug/l	6.0	1
	04/11/05 00:00	268065	(ML/EPA 350.1) Ammonia Nitrogen	MD	mg/1	0.050	1
	04/07/05 16:46	267757	(ML/EPA 300.0) Nitrite, Nitrogen by IC	ND	mg/1	0.20	2
	04/07/05 16:46	267761	(B300.0/ SW705	66) Nitrate as Nitrogen by	IC 3.6	mg/l	0.20	2
	04/07/05 17:00	267784	(SM4500P-E) Orthophosphate-P	0.026	mg/l	0.010	1
	04/13/05 14:46	268531	(S4500PE/ 365.	1) Total phosphorus-P	0.022	mg/l	0.010	1
	04/14/05 15:32	269038	(ML/EPA 351.2) Kjeldahl Nitrogen	0.30	mg/l	0.20	1
	04/07/05 15:17		(ML/SM9221B) Total Coliform Bacteria	700	MPNM	2.0	1
	04/07/05 15:58	267838	(ML/EPA 180.1) Turbidity	0.50	NTU	0.050	1
			Diazinon/	Chlorpyrifos by	GCMS			
	04/19/05 00:00		(EPA 625 MODSU	B) Diazinon	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Bolstar (Sulprofos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Chlorpyrifos	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Demeton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Dichlorvos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Disulfoton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Dimethoate	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Ethoprop (Ethoprophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Fenchlorophos (Ronnel)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Fensulfothion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Fenthion	DN	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Merphos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Mevinphos (Phosdrin)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Malathion	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Parathion-methyl	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Phorate	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Tokuthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	8) Tetrachlorovinphos (Stir	ophos) ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUI	B) Trichloronate	ND	ng/l	10	1



Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE 3	BIG TJ W	ASH 1	(250407021	.6) Sampled on	04/07/05 1	1:20		***************************************
	04/07/05 15:37		(ML/SM9221C) Fecal Coliform Bacteria	2	MPNM	2.0	1
	04/08/05 00:00	267909	(ML/EPA 547) Glyphosate	ND	ug/1	6.0	1
	04/11/05 00:00	268065	(ML/EPA 350.1	Ammonia Nitrogen	ND	mg/l	0.050	1
	04/07/05 15:59	267757	(ML/EPA 300.0	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	04/07/05 15:59	267761	(E300.0/ SW7056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	04/07/05 17:00	267784	(SM4500P-E	Orthophosphate-P	0.011	mg/l	0.010	1
	04/13/05 14:46	268531	(S4500PE/ 365.1)	Total phosphorus-P	0.010	mg/l	0.010	1
	04/14/05 15:32	269038	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.23	mg/l	0.20	1
	04/07/05 15:37		(ML/SM9221B	Total Coliform Bacteria	170	MPNM	2.0	1
	04/07/05 15:58	267838	(ML/EPA 180.1)	Turbidity	1.6	NTU	0.050	1
			Diazinon/C	hlorpyrifos by GCMs	S			
	04/19/05 00:00		(EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	ı
	04/19/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE	3 BIG TJ W	ASH 2	(25040702)	17) Sampled on	04/07/05 1	1:35		
	04/07/05 15:40		(ML/SM9221C) Fecal Coliform Bacteria	2	MPNM	2.0	1
	04/08/05 00:00	267909	(ML/EPA 547) Glyphosate	ND	ug/l	6.0	1
	04/11/05 00:00	268065	(ML/EPA 350.1) Ammonia Nitrogen	ND	mg/l	0.050	1
	04/07/05 15:36	267757	(ML/EPA 300.0) Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	04/07/05 15:36	267761	(E300.0/ SW7056) Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	04/07/05 17:00	267784	(SM4500P-E) Orthophosphate-P	0.012	mg/l	0.010	1
	04/13/05 14:46	268531	(S4500PE/ 365.1) Total phosphorus-P	ND	mg/l	0.010	1
	04/14/05 15:32	269038	(ML/EPA 351.2) Kjeldahl Nitrogen	0.24	mg/l	0.20	1
	04/07/05 15:40		(ML/SM9221B) Total Coliform Bacteria	21	MPNM	2.0	1
	04/07/05 15:58	267838	(ML/EPA 180.1) Turbidity	1.3	NTU	0.050	1
			Diazinon/C	hlorpyrifos by GCM	S			
	04/19/05 00:00		(EPA 625 MODSUB		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB) Bolstar (Sulprofos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB) Chlorpyrifos	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB) Demeton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB) Dichlorvos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB) Disulfoton	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB) Dimethoate	ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSUB	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB	Fensulfothion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB	Fenthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	ı
	04/19/05 00:00		(EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)) ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



Prepared	Analyzed	QC Ref#	Method	Analyte		Result	Units	MRL	Dilution
SITE 4	4 HAINES C	CANYON	CREEK 1 (2504070218)	Sampled	on	04/07/05	10:00	
	04/07/05 15:43		(ML/SM9221C) Fecal Coliform Bacteria		8	MPNM	2.0	1
	04/08/05 00:00	267909	(ML/EPA 547) Glyphosate		ND	ug/l	6.0	1
	04/11/05 00:00	268065	(ML/EPA 350.1) Ammonia Nitrogen		ND	mg/l	0.050	1
	04/07/05 17:20	267757	(ML/EPA 300.0) Nitrite, Nitrogen by IC		ND	mg/l	0.20	2
	04/07/05 17:20	267761	(E300.0/ SW705	6) Nitrate as Nitrogen by	IC	ND	mg/l	0.20	2
	04/07/05 17:00	267784	(SM4500P-E) Orthophosphate-P		ND	mg/l	0.010	1
	04/13/05 14:46	268531	(S4500PE/ 365.	1) Total phosphorus-P		ND	mg/l	0.010	1
	04/14/05 15:32	269038	(ML/EPA 351.2) Kjeldahl Nitrogen		0.21	mg/l	0.20	1
	04/07/05 15:43		(ML/SM9221B) Total Coliform Bacteria		500	MPNM	2.0	1
	04/07/05 15:58	267838	(ML/EPA 180.1) Turbidity		1.4	NTU	0.050	1
			Diazinon/	Chlorpyrifos by	GCMS				
	04/19/05 00:00		(EPA 625 MODSU			ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Bolstar (Sulprofos)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Chlorpyrifos		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Demeton		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Dichlorvos		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Disulfoton		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Dimethoate		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	B) Ethoprop (Ethoprophos)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	B) Fenchlorophos (Ronnel)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	3) Fensulfothion		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSU	3) Fenthion		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUI	3) Merphos		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUI	3) Mevinphos (Phosdrin)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUI	3) Malathion		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MODSU	3) Parathion-methyl		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUI	B) Phorate		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Tokuthion		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUE	3) Tetrachlorovinphos (Stir	ophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MODSUF	3) Trichloronate		ND	ng/l	10	1



Prepared	Analyzed	QC Ref#	Method	Analyte		Result	Units	MRL	Dilution
SITE	4 HAINES (CANYON	CREEK 2	(2504070219)	Sampled	on	04/07/05	10:15	
	04/07/05 15:47		(ML/SM9221C) Fecal Coliform Bacteri	a	4	MPNM	2.0	1
	04/08/05 00:00	267909	(ML/EPA 547) Glyphosate		ND	ug/l	6.0	1
	04/11/05 00:00	268065	(ML/EPA 350.	l) Ammonia Nitrogen		ND	mg/l	0.050	1
	04/07/05 16:11	267757	(ML/EPA 300.	0) Nitrite, Nitrogen by I	c	ND	mg/l	0.20	2
	04/07/05 16:11	267761	(E300.0/ SW7	056) Nitrate as Nitrogen by	IC	ND	mg/l	0.20	2
	04/07/05 17:00	267784	(SM4500P-E) Orthophosphate-P		ND	mg/l	0.010	1
	04/13/05 14:46	268531	(S4500PE/ 36	5.1) Total phosphorus-P		0.012	mg/l	0.010	1
	04/14/05 15:32	269038	(ML/EPA 351.	2) Kjeldahl Nitrogen		0.54	mg/l	0.20	1
	04/07/05 15:47		(ML/SM9221B) Total Coliform Bacteria	a	21	MPNM	2.0	1
	04/07/05 15:58	267838	(ML/EPA 180.	l) Turbidity		1.3	ntu	0.050	1
			Diazinon	/Chlorpyrifos by	GCMS				
	04/19/05 00:00		(EPA 625 MOD	SUB) Diazinon		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Bolstar (Sulprofos)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Chlorpyrifos		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Demeton		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Dichlorvos		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Disulfoton		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Dimethoate		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Ethoprop (Ethoprophos)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Fenchlorophos (Ronnel)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Fensulfothion		ND	ng/l	10	1
	04/19/05 00:00		{ EPA 625 MOD	SUB) Fenthion		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Merphos		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Mevinphos (Phosdrin)		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Malathion		ND	ng/l	5.0	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Parathion-methyl		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Phorate		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Tokuthion		ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD	SUB) Tetrachlorovinphos (Sti	rophos)	ND	ng/l	10	1
	04/19/05 00:00		(EPA 625 MOD:	SUB) Trichloronate		ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles)

		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
QC	Ref	#267757	- Nitrite,	Nitrogen :	by IC	Analysis	Date:	04/07/2005
		25040	70211	SITE 1	INFLOW	TO TJ POND 1		
		25040	70212	SITE 1		TO TJ POND 2		
		25040	70213			W FROM TJ PON	D 1	
		25040	70214	SITE 2	OUTFLO	W FROM TJ PON	D 2	
		25040	70216	SITE 3	BIG TJ	WASH 1		
			70217		BIG TJ			
		25040	70218	SITE 4	HAINES	CANYON CREEK	1	
		25040	70219	SITE 4	HAINES	CANYON CREEK	2	
QC	Ref	#267761	- Nitrate a	as Nitroge	n by IC	Analysis	Date:	04/07/2005
			70211			TO TJ POND 1		
			70212			TO TJ POND 2		
		25040	70213	SITE 2		FROM TJ PONI		
		25040	70214	SITE 2		FROM TJ PONI	) 2	
		20040	70216 70217	STIES	BIG TJ			
					BIG TJ	CANYON CREEK	1	
			70218 70219			CANYON CREEK		
		25040	70219	STIE 4	DAINES	CANTON CREEK	4	
QC	Ref	#267784	- Orthophos	sphate-P		Analysis	Date:	04/07/2005
		25040	70211	दानाइ	TNTET.OM	TO TJ POND 1		
		25040	70211			TO TJ POND 2		
			70213			FROM TJ PONI	) 1	
			70214	SITE 2		FROM TJ PONI		
			70216		BIG TJ			
		25040	70217	SITE 3	BIG TJ			
		25040	70218	SITE 4	HAINES	CANYON CREEK	1	
		25040	70219	SITE 4	HAINES	CANYON CREEK	2	
റ്	Pof	#267837	- Turbidity	<b>,</b>		Analysis	Date:	04/07/2005
×	***C T	πΔ0/03/	- IUIDIUICY	,		MIGTARIR	vale:	04/0//2005
		25040	70211	SITE 1	INFLOW	TO TJ POND 1		
			70212			TO TJ POND 2		
		25040				FROM TJ PONE	) 1	



QC	Ref	#267838	- Turb	idity	Analysis Date:	04/07/2005
		25040 25040	70214 70216 70217 70218	SITE 3 SITE 3	OUTFLOW FROM TJ POND 2 BIG TJ WASH 1 BIG TJ WASH 2 HAINES CANYON CREEK 1	
					HAINES CANYON CREEK 2	
QC	Ref	#267909	- Glypl	nosate	Analysis Date:	04/08/2005
		25040	70212 70213 70214 70216 70217 70218	SITE 2 SITE 2 SITE 3 SITE 3 SITE 4	INFLOW TO TJ POND 1 INFLOW TO TJ POND 2 OUTFLOW FROM TJ POND 1 OUTFLOW FROM TJ POND 2 BIG TJ WASH 1 BIG TJ WASH 2 HAINES CANYON CREEK 1 HAINES CANYON CREEK 2	
QC :	Ref	#268065	- Ammor	nia Nitrogen	Analysis Date:	04/11/2005
QC :	Ref	250407 250407 250407 250407	70211 70212 70213 70214 70216 70217 70218	SITE 1 SITE 1 SITE 2 SITE 2 SITE 3 SITE 3 SITE 4	Analysis Date:  INFLOW TO TJ POND 1 INFLOW TO TJ POND 2 OUTFLOW FROM TJ POND 1 OUTFLOW FROM TJ POND 2 BIG TJ WASH 1 BIG TJ WASH 1 BIG TJ WASH 2 HAINES CANYON CREEK 1 HAINES CANYON CREEK 2	04/11/2005
		250407 250407 250407 250407 250407 250407	70211 70212 70213 70214 70216 70217 70218 70219	SITE 1 SITE 1 SITE 2 SITE 2 SITE 3 SITE 3 SITE 4	INFLOW TO TJ POND 1 INFLOW TO TJ POND 2 OUTFLOW FROM TJ POND 1 OUTFLOW FROM TJ POND 2 BIG TJ WASH 1 BIG TJ WASH 2 HAINES CANYON CREEK 1 HAINES CANYON CREEK 2	



Applied Research Dept, MWH (Darren Giles) (continued)

2504070218	SITE	4	HAINES	CANYON	CREEK	1
2504070219	SITE	4	HAINES	CANYON	CREEK	2

QC Ref #268802 - Kjeldahl Nitrogen Analysis Date: 04/14/2005

2504070211 SITE 1 INFLOW TO TJ POND 1

QC Ref #269038 - Kjeldahl Nitrogen Analysis Date: 04/14/2005

2504070212	SITE 1 INFLOW TO TJ POND 2
2504070214	SITE 2 OUTFLOW FROM TJ POND 2
2504070216	SITE 3 BIG TJ WASH 1
2504070217	SITE 3 BIG TJ WASH 2
2504070218	SITE 4 HAINES CANYON CREEK 1
2504070219	SITE 4 HAINES CANYON CREEK 2

QC Ref #271593 - Kjeldahl Nitrogen Analysis Date: 05/12/2005

> 2504070213 SITE 2 OUTFLOW FROM TJ POND 1



Applied Research Dept, MWH (Darren Giles)

QC	Ref	#267757	Nitrite,	Nitro	ogen by	IC			
ōc.		Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1		Nitrite, Nitrogen by	IC	1.0	1.02	MGL	102.0	( 90-110 )	
LCS2		Nitrite, Nitrogen by	IC	1.0	1.01	MGL	101.0	( 90-110 )	0.99
MBLK		Nitrite, Nitrogen by	IC	ND	<0.10	MGL			
MS		Nitrite, Nitrogen by	IC	1.0	0.947	MGL	94.7	( 90-110 )	
MSD		Nitrite, Nitrogen by	IC	1.0	0.971	MGL	97.1	( 90-110 )	2.5
QC	Ref	#267761	Nitrate	as Nit	rogen b	y IC			
QC		Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1		Nitrate as Nitrogen b	y IC	2.5	2.52	MGL	100.8	( 90-110 )	
LCS2		Nitrate as Nitrogen b	y IC	2.5	2.53	MGL	101.2	( 90-110 )	0.40
MBLK		Nitrate as Nitrogen b	A IC	ND	<0.10	MGL			
MS		Nitrate as Nitrogen b	Y IC	2.5	2.46	MGL	98.4	( 90-110 )	
MSD		Nitrate as Nitrogen b	y IC	2.5	2.45	MGL	98.0	( 90~110 )	0.41
QC	Ref	#267784	Orthopho	sphate	}-P				
			<del></del>	_					
QC		Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS		Spiked sample		Lab # 25	04070218	MGL		( 0-0 )	
LCS1		Orthophosphate-P		0.5	0.510	MGL	102.0	( 90-110 )	
LCS2		Orthophosphate-P		0.5	0.510	MGL	102.0	( 90-110 )	0.00
MBLK		Orthophosphate-P		ND	<0.010	MGL			
MS		Orthophosphate-P		0.5	0.508	MGL	101.6	( 80-120 )	
MSD		Orthophosphate-P		0.5	0.510	MGL	102.0	( 80-120 )	0.39

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



Applied Research Dept, MWH (Darren Giles) (continued)

	QC	Ref	#267837	Turbidit	ty					
QC			Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP			Turbidity		0.10	0.10	NTU		( 0-20 )	0.0
									, , ,	
	QC	Ref	#267838	Turbidit	ty					
			_							
QC			Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP			Turbidity		0.30	0.30	UTU		( 0-20 )	0.0
	oc	Ref	#267909	Glyphosa	ate					
	_		•							
QC			Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS			Spiked sample		Lab # 25	0406359	UGL		( 0-0 )	
LCS1			Glyphosate		10	8.83	UGL	88.3	( 70-130 )	
MBLK			Glyphosate		ND	<6.0	UGL			
MS			Glyphosate		10	7.62	UGL	76.2	( 70-130 )	
MSD			Glyphosate		10	8.00	UGL	80.0	( 70-130 )	4.9
	റ്റ	Ref	#268065	Ammonia	Nitroo	ron.				
	~~	***	1120000	zminioni a	111 01 09	1011				
QC			Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS			Spiked sample		Lab # 25	04070007	MGL		( 0-0 )	
LCS1			Ammonia Nitrogen		1.00	1.05	MGL	105.0	( 90-110 )	
LCS2			Ammonia Nitrogen		1.00	1.05	MGL	105.0	( 90-110 )	0.00
MBLK			Ammonia Nitrogen		ND	<0.050	MGL			
MS			Ammonia Nitrogen		1.00	1.03	MGL	103.0	( 90-110 )	
MSD			Ammonia Nitrogen		1.00	1.01	MGL	101.0	( 90-110 )	2.0

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

Applied Research Dept, MWH (Darren Giles) (continued)

QC Ref	#268531	Total pl	nosphor	rus-P				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	04070097	MGL		( 0~0 )	
LCS1	Total phosphorus-P		0.4	0.410	MGL	102.5	( 90-110 )	
LCS2	Total phosphorus-P		0.4	0.400	MGL	100.0	( 90-110 )	2.5
MELK	Total phosphorus-P		ND	<0.010	MGL			
MS	Total phosphorus-P		0.4	0.420	MGL	105.0	( 90-110 )	
MSD	Total phosphorus-P		0.4	0.390	MGL	97.5	( 90-110 )	7.4
RPD_LCS	Total phosphorus-P		102.500	100.000	MGL	2.5	( 0-10 )	
RPD_MS	Total phosphorus-P		105.000	97.500	MGL	7.4	( 0-10 )	
QC Ref	#268802	Kjeldahl	. Nitro	gen				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	04070004	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen		4	3.90	MGL	97.5	( 90-110 }	
LCS2	Kjeldahl Nitrogen		4	3.80	MGL	95.0	( 90-110 )	2.6
MBLK	Kjeldahl Nitrogen		ND	<0.20	MGL			
MS	Kjeldahl Nitrogen		4	4.08	MGL	102.0	( 90-110 )	
MSD	Kjeldahl Nitrogen		4	4.12	MGL	103.0	( 90-110 )	0.98
RPD_LCS	Kjeldahl Nitrogen		97.500	95.000	MGL	2.6	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen		102.000	103.000	MGL	1.0	( 0-10 )	
QC Ref	#269038	Kjeldahl	Nitro	gen				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	04120101	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen		4	3.90	MGL	97.5	( 90-110 )	
LCS2	Kjeldahl Nitrogen		4	3.80	MGL	95.0	( 90-110 )	2.6
MBLK	Kjeldahl Nitrogen		ND	<0.20	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u>
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



Applied Research Dept, MWH (Darren Giles) (continued)

MS	Kjeldahl Nitrogen	4	3.94	MGL	98.5	( 90-110 )
MSD	Kjeldahl Nitrogen	4	4.11	MGL	102.8	( 90-110 ) 4.2
RPD_LCS	Kjeldahl Nitrogen	97.500	95.000	MGL	2.6	( 0-20 )
RPD MS	Kieldahl Nitrogen	98.500	102.750	MGL	4.2	( 0~10 )

## QC Ref #271593 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	05040292	MGL		( 0-0 }	
LCS1	Kjeldahl Nitrogen	4	4.00	MGL	100.0	( 90-110 )	
LCS2	Kjeldahl Nitrogen	4	4.00	MGL	100.0	( 90-110 )	0.00
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.07	MGL	101.8	( 90-110 )	
MSD	Kjeldahl Nitrogen	4	4.29	MGL	107.2	( 90-110 )	5.3
RPD_LCS	Kjeldahl Nitrogen	100.000	100.000	MGL	0.0	( 0~20 )	
RPD_MS	Kjeldahl Nitrogen	101.750	107.250	MGL	5.3	( 0-10 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



2020 Del Amo Bivd. Suite 200, Torrance, CA 90501 • (310) 533-5190 • FAX (310) 533-5003 • mmercier@crglabs.com

April 22, 2005

MWH Laboratories 70 Royal Oaks Dr., Suite 100 Monrovia, CA 91016-3629

Re:

CRG Project ID:

P2502ax

MWH Project:

145899

MWH Sub PO:

99-16654

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 145899 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on April 8, 2005. Per your instructions, the samples were analyzed for:

Organophosphorus Pesticides By GCMS Using EPA Method 625

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards, Misty B. Mercier Project Manager

millandshariar

Cignally signed by Minty Borgs Mercier
On: ON > Minty Borgs Mercier; C > US; C > CRG Macin
Laboratories, Inc.
Date: 2005:04.22.12:00:02 -67/00

Reviewed and Approved

## DATA REPORT

# **CRG Marine Laboratories**, 9nc. 1nc. 2020 Del Amo Bivd., Suite 200, Torrance. CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## Organizational Passional Samonal

Client:	<b>MWH Laboratories</b>	vries							0.70		
CRG ID#:	23957		9				l	ב מ	CNG Project (U):	707	Z20ZaX
Replicate #: R1	£ 5		Sample Description:	2504070211 Droigot #146900	SITE 1	SITE 1 INFLOW TO TJ POND	<del></del>	Date Sampled:	ed: 07-Apr-05		12:25
Batch ID:	2502,13083			1 Upon # 140089 / PO #98-16654	10 124-16654			Date Received:	red: 08-Apr-05	-05	
Instrument:	,		Matrix: Analyst:	. Wastewater D. Gonsman			•	Date Processed:		50-	
CONSTITUENT	Ĭ,	FRACTION		METHOD	AL REPORTED		" F	uate Analyzed:	3ed: 19-Apr-05	ş	
(OCOBOD)	The second secon		***************************************	**************************************	KESULI	CNITS	MDL	RL	DILUTION	ACC	ACCEPTANCE PANCE
(1 CD030)		Total		EPA 625	102	% Recovery	The state constitution and the				
(FCB112)		Total		EPA 625	102	% Decouper			- ,	<b>e</b> 1	46 - 119%
(PCB198)		Total		EPA 625	80	% Recovery			per v	in	52 - 123%
(CMX)		Total		EPA 625	100	A CONTRACT OF			<b>-</b> -	Ã	59 - 123%
Bolstar (Sulprofos)	olos)	Total		FDA 695		ve vectorery			·	4	40 - 110%
Chlorpyrifos		Total		ED & 0.30	2 :	ng/L	5	20	<b>*</b>		× ×
Demeton		Totol		EFA 025	Q	ng/L	ć.	10	ų.		× ×
Diazinon		i cia		EPA 625	2	ng/L	10	50	4~		NA NA
Dichloryos		lota		EPA 625	Q	ng/L	κs	10	- \$111		{ N
Dimethoate		tolar 1	.,	EPA 625	S	ng/L	10	50			<b>S S</b>
Disuffeton		lotal		EPA 625	£	ng/L	S	ţ	. +		¥ ¥
Ethoping (Ethopistos)	(outobox)	Total		EPA 625	QN	ng/L	01	20	- 4		Y X
Fenchlombos (Ropped)	(Bones)	lotai		EPA 625	Q	ng/L	10	2 2	- 4-		V V
Fensulfothion	(included)	lolai L	-	EPA 625	£	ng/L	01	8	- <del>1-</del>		<b>V</b> 2
Fenthion		Total		EPA 625	Q	ng/L	10	20	· •		( Q
Malathion		TOTAL	<b>\</b>	EPA 625	Q	ng/l.	10	20	****		ξ X
Merphos		10 to		EPA 625	Q	ng/L	សា	10	***		NA NA
Methyl Parathion	io.	Total		EPA 625	Q	ng/L	10	20	_		ž
Mevinphos (Phosdrin)	(unbsoc	Total		EFA 625	g	ng/L	10	20	<b>4</b>		¥ X
Phorate		in in	يا ند	EFA 625 FDA 686	Q	ng/L	10	20	₩.		NA
Tetrachlorvinphos (Stirofos)	hos (Stirofos)	Total	J [	EFA 625 FD4 625	Q	ng/L	Ç	2	₩-		NA NA
Tokuthion	•	Total	نا ب	CFA 623	Q.	ng/L	\$	20	<b>4</b>		A.A.
Trichloronate		Total	ed L	EFA 025	9	ng/L	10	20	<b>*</b>		Q Z
			4	EFA 625	9	J/Bu	10	20	<del>,</del> -		¥

MDL» Method Detection Limit (CFR 40 Part 136); RL» Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND» Not Detected; NA» Not Applicable,

California ELAP Certificate # 2261 23957 R1

# 2020 Del Amo Bivd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### Orginately hospitation Pestfololes

CRG ID#: Replicate #: F Batch ID: Instrument:							֡֝֜֝֜֜֜֜֝֓֜֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		
	2225.0						ニュラとう	CAG Project IU:	2502ax
	43330 R1	Sample Description:	2504070212 Project #445900 (F	SITE 1 IN	SITE 1 INFLOW TO TJ POND 2		Date Sampled:	ed: 07-Apr-05	5 12:40
	2502-13082	Matrix:	Wastewater				Date Received:		សា
	GC/MS #2 Shirnadzu OP2010	Analyst:	D. Gonsman				Date Processed: Date Analyzed:	sed: 11-Apr-05 ed: 19-Apr-05	vo v
CONSTITUENT	FRACTION		METHOD	RESULT	UNITS	MDL	RE	123	ACCEPTANCE
(PCB030)	Total			***************************************	20 cm - cm			FACTOR	RANGE
(PCB112)	Total T		670 11	94	% Recovery			-	46 - 119%
(PCB194)			EPA 625	<b>9</b> 6	% Recovery				50 4000
(TCMY)	otal		EPA 625	94	% Recovery			- +	34 - 12376
Roletar (Content)			EPA 625	83	% Recovery			~ ~	29 - 123%
Dolota (Sulprofos)	Total		EPA 625	CZ	in none	4	é é	<b>,</b>	40 - 110%
Chlorpyrilos	Total		EPA 625	2	,	⊇	3	<b>*</b>	NA A
Demeton	Total		EDA 696	2 :	ng/L	S	10	₩-	MA
Diazinon	LefoT		1 A OKO	2	ng/L	10	20	<b>,</b>	AN
Dichlorvos	Total		EPA 625	Q	ng/L	တ	2	•	. Q
Dimethoate	P. F.	,	EPA 625	Q	ng/L	5	20	. *	V. V.
Distufoton	lotal		EPA 625	S	na/L	40	· ¢		£ :
Ethopro /Est			EPA 625	QN	l'ou	, \$	2 6	<del>-</del> ,	AN
Europrop (Ethoprofos)	rofos) Total	~	EPA 625	2	į,	⊇ :	20	<del>/</del>	NA
Fenchlorphos (Ronnel)			FPA 626	2 5	J/6u	Ç	20	₩.	Ϋ́
Fensulfothion	Total	, ,	EDA GOG	2 :	ng/L	10	20	<b>*</b>	AN
Fenthion	Total	, ,	EDA 626	2 ;	ng/L	10	20	۲	Α.N.
Matathion	Total	* 14	EDA 626	Q !	ng/L	10	20	şm	¥
Merphos		<b>.</b>	E! # 020	2	ng/L	S	<b>1</b> 0	-	NA
Methyl Parathion			EPA 626	Q :	ng/L	10	50	*	Į W
Mevinphos (Phosdrin)			EDA 675	⊋ :	ng/L	9	20	<b>V</b> ÷	Ą
Phorate		J	EF A 623		ng/L	10	20	*~	AN
Tetrachlorvinphos (Stirofos)		u u	Er A 023	2	ng/L	10	20	ę-	AN
Tokuthion		u u	EFA 625	Q :	ng/L	9	20	<b>A</b> m-	AN
Trichloronate	Total	1 fT	EPA 625	2 5	ng/l_	10	20	4	NA
		1	070	2	ng/L	10	20	۴	NA

MDL; ND= Not Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 23958 R1

# ORG Marine Laboratories, 9m. 2020 Dei Amo Bivd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client: MWH Laboratories	atories									
CRG ID#: 23959							CRG Pr	CRG Project ID:	250	2502ax
#±		Sample Description:	2504070213 Project #145899 / PO #99-16654	SITE 2 ( PO #99-16654	SITE 2 OUTFLOW FR TJ POND 654	ONO	Date Sampled:			13:25
Instrument: GC/MS #2 Shimadzu QP2010		Matrix: Analyst:	Wastewater D. Gonsman				Date Processed:		08-Apr-05 11-Apr-05	
CONSTITUENT	FRACTION		METHOD	RESULT	UNITS	Į.	vote Attatyzed:		6 2	
(PCB030)	177	And the second s	a service and analysis of the service of the servic			TATAL TATAL	Z.	FACTOR		ACCEPTANCE
(PCB112)	otai		EPA 625	98	% Recovery				4 : ¥	AC 4400
(PCB198)	Total		EPA 625	88	% Recovery			٠ ٧٠٠		40 - 11976
(TCMX)	Total		EPA 625 EDA 626	26	% Recovery				50.00	59 - 123%
Bolstar (Sulprofos)	Total		Er A 023	සි	% Recovery			-	40	40 - 110%
Chlorpyrifos	Total		EFA 626	Q :	ng/L	10	20	***		₹ Z
Demeton	Total		EPA 625	2 2	ng/L	ಭ	10	<b>4</b>		¥
Diazinon	Total		EPA 625	2 4	ng/L	10	20	Ann		₹
Dichlarvas	Total		FPA 625	9 9	ng/L	\$	10	-		¥
Umethoate	Total		EPA 625	2 2	ng/l.	10	20	<b>*</b> ~		NA
Distritoton	Total		EPA 625	2 2	ng/L	S	10	****		NA AM
Ethoprop (Ethoprofos)	Total		FPA 625	2 9	ng/L	10	50	~		NA
Fenchlorphos (Ronnel)	Total	144	EPA 625	⊋ ⊊	ng/L	10	50	•		Ą
rensultothon	Total	444	EPA 625	- X	ng/L	\$	20	*		NA A
	Total	ئن	EPA 625	2 5	ng/L	10	50	<del></del>		MA
Member	Total	uiJ	EPA 625	) Z	ng/L	5	20	<b>*</b>		N N
Marie Commence	Total	ΥŊ	EPA 625	<del>}</del>	ng/L	ഹ	10	٠		×.
weuly ratalnon	Total	m	EPA 625	€ 5	ng/L	6	50	<b>4</b>		¥
Mevil (Prosprin)	Total	ш	EPA 625	€ ≨	, g	10	20	<del></del>		NA
	Total	ш	EPA 625	) <u>S</u>	ng/L	9	20	***		NA
Tokuthion	Total	ш	EPA 625	9	7/00	2 5	2 2	****		MA
Trichloronate	Total	ш	EPA 625	QN	76.	<u> </u>	Q 8	<b>.</b>		ΝΑ
	Total	Ш	EPA 625	9	1 BOG	2 5	2 8	<del>,</del> .	-	¥.
					t b	2	07	<del>4</del>	~	×

MDL. Method Detection Limit (CFR 40 Part 136); RL. Minimum Level (SWRCB); E. Estimated Value below the RL and above the MDL; ND. Not Detected; NA. Not Applicable.

California ELAP Certificate # 2261 23959 R1

 2020 Del Amo Bivd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobat.net

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Client:	Client: MWH Laboratories								
CRG ID#:	23960	Comments					SRG Pre	CRG Project ID:	2502ax
Replicate #:		Sample Description:	2504070214 Project #145050 752	SITE 2 OU	SITE 2 OUTFLOW FR TJ POND		Date Sampled:	ad: 07-Apr-05	Ç
Batch ID:		Matrix:	Wastewater	7 #59-16654		_	Date Received:		
instrument:	GC/MS #2 Shimadzu QP2010	Analyst:	D. Gonsman				Date Processed:		<b>0</b> 5
CONSTITUTENT	VI FRACTION		METHOD	RESILT.	CARACA	- 1	Date Analyzed:	ed: 19-Apr-05	95
(PCB030)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A CONTRACTOR OF THE PROPERTY O	The second secon	17000	SHUD	MDL	Z.	DILUTION	ACCEPTANCE
(PCB112)	lotal		EPA 625	98	% Recovery			FALIUK	KANGE
(PCB198)	Total		EPA 625	g	% Booking			agrae.	46 - 119%
(1 00 (30)	Total		EPA 625	. y	% Or The Covery			₩-	52 - 123%
Determine (O)	Total		EPA 625	0.0	% Recovery			τ-	59 - 123%
polistar (Sulprofes)	'olos) Total		EPA 625	in Circ	% Kecovery			<b>-</b>	40 - 110%
Chlorpyrifos	Total		FPA 625	2 :	ng/L	5	20	<b>y</b>	×
Demeton	Total		EDA 625	2 2	ng/L	'n	10	<b>4</b>	NA
Diazinon	Total		EDA 626	ב ב	ng/L	10	20	ę-	Z Z
Dichloryos	Total	, I	EDA 625	2	ng/l_	S	10	<b>-</b> -	Z Z
Dimethoate	Total	, 11	EDA 626	2 :	ng/l.	10	20	<del></del>	Ž
Disulfoton		n er	EPA 62#	2 :	ng/L	Ŋ	9	₩	ŠŽ
Ethoprop (Ethoprofos)		î H	EPA 625	Q :	ng/L	10	20	*	N N
Fenchlorphos (Ronnel)			EDA 626	2	ng/L	10	20	₹~	Q N
Fensulfothion	Total	ח ת	Er# 025 Eb# 625	<b>2</b> :	ng/L	õ	20	*	Ç Z
Fenthion	Total	រ ម	EPA 625	9 :	ng/L	10	20	•	¥ N
Malathion	Total	1 122	EPA 625	2 2	J/Bu	10	20	₩-	AN AN
Merphos	Total	i iii	EPA 625	2 4	1/Bu	တ	10	<del></del>	AN A
Methyl Parathion	Total		EPA 625	⊋ Ş	ng/L	2	20	₩-	ξ.X
Mevinphos (Phosdrin)	rosdrin) Total	П	EPA 625	§ §	ng/L	10	20		NA
Tetrackie	Total	ត ត	EPA 625	<b>2 2</b>	ng/L	10	20	-	MA
Teliadillorvinphos (Stirofos)	nos (Strofos) Total	ū	EPA 625	2 2	J/bu	10	20	<b>*</b>	NA
Trichloggaeta	Total	ā	EPA 625	2 2	Jō.	10	20	۳	NA NA
THE WOLDS	Total	Ü	EPA 625	2 2	ng/L	0	70	<del>**-</del>	¥
				2	J/Bu	10	20	<b>***</b>	NA

MDL.: Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL.; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 23960

2

# **CRG Marine Laboratorica, 9uc.** 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crylabs@sbcglobal.nel

## Organophosphorus Pesholides

Client: M	Client: MWH Laboratories						1000		0000
							CRG Project ID:	ect IU:	Z20Z3X
CRG ID#: 2	23962	Sample	2504070217	SITE 3 BIG	SITE 3 BIG TJ WASH 2		Date Sampled:	; 07-Apr-05	11,35
	Ž.	Description;	Project #145899 / PO #99-16654	² O #99-16654		_	Date Received:		
Batch ID: 2	2502-13082		Wastewater				Date Processed:		
mannan.	GUIMS #2 Shimadzu QP2010	Analyst:	D. Gonsman			***	Date Analyzed:		
CONSTITUENT		FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION	ACCEPTANCE
(PCB030)		E C	EDA ROE	***************************************				FACTOR	KANCK
(PCB112)	ž Ĥ	100	EFA 023	ž.	% Recovery			۲	46 - 119%
(DCB198)	¥ 1	okaj	EPA 625	86	% Recovery			***	52 - 123%
(TCM)	<b>~</b>	otal	EPA 625	8	% Recovery			<b>*</b>	59 - 123%
Dolotos (Submiss	•••	olai	EPA 625	96	% Recovery			₩.	40 - 110%
Dustal (Sulprotos)	<b>!····</b>	otal	EPA 625	Q	ng/L	10	20	4~	V V
Chlorpynios		otal	EPA 625	ON	ng/L	цŋ	Ç		į S
Demelon	ĭ	otal	EPA 625	QN	ng/L	, Ç	2 %	- <b>-</b>	\$ \$
Diazmon	H	otal	EPA 625	ON C	no/l.	· Kr	10		£ 2
Dichlorvos	<u>۲</u>	otal	EPA 625	S	"Jou	, Ç	2 6	- +	£ ~
Umethoate	7	Total	EPA 625	Q	1/60	ž uc	2 0 7	- 4	<u> </u>
Disulfoton		Totaí	EPA 625	Q	Jud.	, 5	2 6	- +	¥ :
Ethoprop (Ethoprofos)		Totai	EPA 625	S	1.g/L	5 \$	2 6	- •	W :
Fenchlorphos (Ronnel)		Total	EPA 625	) <u>C</u>	J &	⊋ ç	0.70	<b>,</b> ,	A :
Fensulfothion	To		EPA 625	2 2	7/01	⊇ (	02 S	· ·	A A
Fenthion	2	Total	FPA 625	2 5	70.	2 (	2	•••	Ϋ́
Malathion			EDA 626	2 9	ng/L	20	20	<b>4</b>	Ā
Merphos	) H		070	2	ng/L	rD.	10	ş	Ą
Methyl Parathion			EFA 625	Q	ng/L	10	20	***	NA
Mevinphos (Phosdrin)			EPA 625	Q	ng/L	10	20	*-	NA
Phorate			EPA 625	Q	ng/L	10	20	•	NA
Tefrachlongionhon			EPA 625	9	ng/L	10	20	<del>*</del>	ď
Tokuthinn			EPA 625	Q	T/Bu	5	20	₩.	¥.
Trichioropate	lolal		EPA 625	Q	ng/L	2	8	<del>-</del> -	AN AN
A \$400 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1 200 1	otal		EPA 625	Q	ng/L	9	20	<del>ę</del>	NA

MDL, Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND» Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 23962

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# **CEG Marine Laboratories, 9nc.**2020 Del Amo Bivd., Sulle 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

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Client:	Client: MWH Laboratories					ľ			
CRG ID#:	23963	Camala	0000000000		***************************************	_	אָר הקי	CRG Project ID:	2502ax
Replicate #;	. R	Description:	25040/0218 SITI	SITE 4 HAII	SITE 4 HAINES CANYON CREEK		Date Sampled:	od: 07-Apr-05	05 10:00
Batch ID:		Matrix	Wastewater	7 #93-10054		Ω	Date Received:	ed: 08-Apr-05	35
Instrument:	GC/MS #2 Shimadzu QP2010	Analyst:	D. Gonsman			<u> </u>	Date Processed:	16	35
CONSTITUENT	NT FRACTION		METHON	Theorem or		1	Date Analyzed:	ed: 19-Apr-05	35
(050a0a)	S. C.			KESULI	ONITS	MDL	×	DILUTION	ACCEPTANCE
(1 CE030)	Total	7/12	EPA 625	97	% Document			racion	KANGE
(FCB112)	Total	- 22	EPA 625	. 40	A CACOVAIN			<del>4</del>	46 - 119%
(PCB198)	Total	725	EPA 625	. 5	% Recovery			<b>-</b>	52 - 123%
(TCMX)	Total		FPA 625	Ĉ i	% Recovery			<b>f</b> eer	59 - 123%
Bolstar (Sulprofos)			EPA 676		% Kecovery			۰	40 - 110%
Chlorpyrifos	101		EDA 676	<u> </u>	ng/L	5	20	4	×
Demeton	Patol		Era ozo	2	ng/L	બ	10	***	N AN
Diazinon	E TOTAL		EFA 025	Q	ng/L	9	20	*	Z Z
Dichlorvos	letoT		EFA 625	Q	ng/L	£	10	· yes	ξ V
Dimethoate	ialo!		EFA 025	Q.	ng/L	10	20	,	. d
Disuffoton	Total		EFA 625	Q	ng/L	S	10	4	Ž Ž
Ethoprop (Ethoprofos)			EFA 525 EDA 626	Q:	ng/L	5	20	***	ž ž
Fenchlorphos (Ronnel)			EFA 625	Q :	ng/L	10	20	-	. A
Fensulfathion			Era ozo	9 !	ng/L	10	20	<b></b>	ž
Fenthion	Total		EPA 625	Q G	ng/L	10	20	-	¥
Malathion	Total		EPA 625	2 4	ng/L	10	20	<del></del>	¥.
Merphos			FPA 825	2 4	J/6u	2	10	₩-	NA
Methyl Parathion			EPA 625	<del>2</del>	ng/L	10	20	<b>/</b>	NA AN
Mevinphos (Phosdrin)	hosdrin) Total		EPA 625	ě	ng/L	<del>2</del> 0	20	*~	NA
Fhorale	Total		EPA 625	⊋ ⊊	ng/L	ę	70	•	Ā
letrachlorvinphos (Stirofos)	hos (Stirofos) Total		EPA 625	<u> </u>	ng/L	10	20	·	A A
Okuthion	Total	_	EPA 625	2 2	ng/L	10	20	<del></del>	ĄŅ
I nchioronate	Total	_	EPA 625		ng/L	<b>6</b>	20	<b></b>	NA
				2	ng/L	9	20	<del></del>	NA

MDL,» Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL,; ND» Not Detected; NA» Not Applicable.

California ELAP Certificate # 2261 23963 R1

2020 Del Amo Bivd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client: MWH Laboratories	S							
23964					O	CRG Project ID:		2502
Replicate #: R1	Sample Description:	2504070219	SITE 4 H	SITE 4 HAINES CANYON CREFK	ı	Date Commit	l	Socax
Batch ID: 2502-13082		Mosterial #145899 / PO #99-16654	#99-16654			Date Received:	07.4pr-05	10:15
instrument: GC/MS #2 Shimadzu QP2010		D. Gonsman				Date Processed;	11-Apr-05	
CONSTITUENT	FRACTION	METHON				Date Analyzed:	19-Apr-05	
(PCB030)		The state of the s	KESULF	UNITS	MDI.	RI. DILU	DILUTION	ACCEPTANCE
		EPA 625	100	2		FAC		RANGE
		EPA 625	2 2	% Kecovery				46.110%
		EPA 625	2 g	% Kecovery			-	52 - 123%
Sulprofee		EPA 625	103	% Kecovery		•	<b></b>	59 - 123%
	Total	EPA 625	S ON	% Kecovery		•	_	40 - 1400/
	Total	EPA 625	2 2	ng/L	10	20		% A 1 . A 1
	Total	EPA 625	2 :	ng/L	2	10		<u> </u>
·	Fotal	EDA ROE	Q .	ng/L	0	00		ď.
	-	570 4.2	Q	no/l	· u	2 5		MA
, o		EPA 625	Q	, ,,,	· ;	2		N.
Disulfoton		EPA 625	QV		2	20		NA
Ethoorofoet		EPA 625		J/Bu	rt)	10		. VIV
<b></b>	otal		2 2	ng/L	10	20		\$ S
,	otai		7	ng/L	10	30		¥.
Ren			Q	no/l	, 5	2 6		NA A
			QN	1 1/0	<u> </u>	20		NA A
			NO ON	# () D) 0	2 :	20		A.
Merphos			Q	11g/L	<u> </u>	20 1		AN AN
Methyl Parathion		EPA 625	S		ξÇ.	10		NA
drin			Q 2		10	20		N Y
		EPA 625	) <u>C</u>	,	10	20		2 4
Tetrachica			2	ng/L	10	20		NA
vinphos (Stirofos)			Q		. <del>C</del>			NA
	-		S		; Ç	77		NA
Inchloronate	-	EFA 625	QN		5 £	20		NA
	-		ON		2 2	30		NA NA
					3	27		NA A

MDL.; ND= Not Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the

California EL.AP Certificate # 2261 23964

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### QUALITY CONTROL REPORT

ORG Marine Laboratories, 9nc., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### Organia plata para mastera se

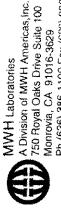
CRG ID#: 23956 Replicate #: 81 Batch ID: 2502-1, Instrument: GC/MS									
Replicate #: 81 Batch ID: 250; Instrument: GC// CONSTITUENT	6	Samolo	00.00			O	RG Pr	CRG Project ID:	2502ax
Batch ID: 250; Instrument: GC/I CONSTITUENT		Description:	UACC Project #145900 / PC	Procedural Blank	Blank	ā	Date Sampled:	ed:	
CONSTITUENT	2502-13082	Matrix:	7 vjeu # 143639 / FU #99-16654 DI Water	7#99-16654		ä	Date Received:	ed:	
CONSTITUENT	GC/MS #2 Shimadzu QP2010	Analyst:	D. Gonsman			ä	Date Processed:	44	-05
	FRACTION		METHOD	DEC137 TO		- 1	Date Analyzed:	ed: 19-Apr-05	-05
(PCB030)	#		The best books as the statement of the s	TOCAN	ONITS	MDL	R.	DILUTION	ACCEPTANCE
(PCB112)	lotal	_	EPA 625	<b>8</b>	% Paccinoni	***************************************		FACTOR	RANGE
(PCR198)	lolal		EPA 625	99	% Document			₩	46 - 119%
(TCMX)	Total	•	EPA 625	95	W Decreey			<b>V</b>	52 - 123%
Bolstar (Submission)	Total		EPA 625	3 5	% Recovery			<b>y</b>	59 - 123%
Object (Culphotos)	Total	w	EPA 625	2	% recovery			<b>4</b>	40 - 110%
Childrynios	Total	144	EPA 625	<u> </u>	ng/L	\$	20	<del></del>	A N
Contention	Total	ш,	EPA 625	Ž :	ng/L	S	<b>£</b>	<b>*</b>	ΨN
Ulazinon	Total		FDA 626	2 :	ng/L	10	20	<b>4</b>	
Dichlorvos	Total	ıu	EPA 625	<del>Q</del>	ng/L	S	10	· •	Ç
Umethoate	Total	ıu	EDA ROE	2	ng/L	10	50	· *	<b>S S</b>
Disuffoton	<del></del>	Ju	EDA 675	Q	ng/L	z,	10	· *-	¥ ¥
Ethoprop (Ethoprofos)	<del>}</del>	J {	r A G.C.3	Q	ng/L	5	50		¥ .
Fenchlorphos (Ronnel)	·	LI L	EFA 625	<del>S</del>	J/Bu	9	2 8	- 4	<b>X</b>
Fensulfothion	• 1	ונו	EFA 625	Q	ng/L	9	3 6	- ,	ď.
Fenthion		Ш	EPA 625	Q	100	<u> </u>	3 8	<del></del>	NA
Malathion	otal	W	EPA 625	Q		⊇ ;	20	<del></del>	¥N
Merphos	lotai	W)	EPA 625	CN	7	2	ଛ	τ	NA
Methyl Parathion	Total	Ш	EPA 625	) S	ng/L	ιn	10	**	Ą
Mevipohos (Phocadan)		ū	EPA 625	) C	ng/L	Ç	20	<b>*</b>	NA
Phorate		ũ	EPA 625	) <u>{</u>	ng/L	10	20	ψ	×
Tetrachlonder		Ü	EPA 625		ng/L	10	20	- April	¥N.
Tokuthion		Ü	EPA 625	2 5	ng/L	10	20	Ψ.	₹ X
Trichloronate	Total	田	EPA 625	9	ng/L	Ç :	20	<del>-</del>	AN
	otal	Ħ	EPA 625	2	1,00	⊋ ;	20	<b>(</b> ~~	ş
					7,64	ç	20	<b></b> -	NA

MDL: Method Detection Limit (CFR 40 Part 136); RL." Minimum Level (SWRCB); E." Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 23956

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## CHAIN-OF-CUSTODY



*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!
Report & Invoice must have the MWH Project Number 145899 Sub PO# 99-16654 and Job #

Submittal Form & Purchase Order 99-16654

04/08/05

Beport all guality control data according to Method, Include dates analyzed, date extracted (if extracted) and Method reference on the report. Results must have Complete data & OC with Approval Signature. See reverse side for List of Terms and Conditions

the Specified State Certification # & Exp Date for

MWH Laboratories 750 Royal Oaks Dr. Monrovia, CA 91016

EMAIL TO: Michael Lettona@mwhglobal.com

Reports: Michael Lettona Sub-contracting Administrator

Accounts Payable PO BOX 7009, Pasadena, CA 91109-7009

Invoices to: MWH LABORATORIES Phone (626) 386-1137 Fax (626) 386-1095

Provide in each Report

requested tests + matrix

3

CA ELAP

Ph (626) 386-1100 Fax (626) 386-1095

Misty B. Mercier CRG MARINE Ship To

Torrance, CA 90501-1206 2020 Del Amo Blvd Suite 200

(310) 533-5190 x106

310-533-5003

MWH Project # Report Due: 04/23/05 145899

99-16654 Sub PO#

Cilent Sample ID for reference on Y

Sample Date & Time

2502 ax

23957-23964 Container

> SITE 1 INFLOW TO TJ POND 1 2504070211 @DIAZEDD

SITE 1 INFLOW TO TJ POND 2

2504070212 2504070213

@DIAZEDD @DIAZEDD @DIAZEDD @DIAZEDD @ DIAZEDD @ DIAZEDD

Analysis Requeste.

Matrix

3 1L amber glass+ buffer+ascorbic+EDTA+DZU 3 1L amber glass+ buffer+ascorbic+ED1A+DZU ΑM 04/07/05 12:25 04/07/05 12:40 DIAZINON & CHLORPYRIFÓS by 625 DIAZINON & CHLORPYP/FOS by 625

3 1L amber glass+ buffer+ascorbic+EDTA+DZU W 04/07/05 13:25 SITE 2 OUTFLOW FROM TJ POND DIAZINON & CHLORPYRIFOS by 625

ww 3 1L amber glass+ buffer+ascorbic+EDTA+DZU ww 3 1L amber glass+ buffer+ascorbic+EDTA+DZU 04/07/05 13:40 04/07/05 11:20 SITE 2 OUTFLOW FROM TJ POND DIAZINON & CHLIGHPYRIFOS by 625 DIAZINON & CHLORPYRIFOS by 625 SITE 3 BIG TJ WASH 2 SITE 3 BIG TJ WASH 1 2504070214 2504070216 2504070217

DIAZINON &CHLORPYRIFOS by 625

04/07/06 11:35 ww 3 1L amber glass+ buffer+ascorbix+EDIA+DZU ww 3 1L amber glass+ buffer+ascorbic+ED1A+DZU 04/07/05 10:00 DIAZINON & CHLORPYRIFOS by 625 SITE 4 HAINES CANYON CREEK 1 2504070218 2504070219

@DIAZEDD

ww 3 1L amber glass+ buffer+ascorbic+EDTA+DZU 04/07/05 10:15 DIAZIMON & CHLORPYRIFOS by 625 SITE 4 HAINES CANYON CREEK 2

Relinquished by:

Received by:

Tiena Sil

Sample Control

TIME CONTESS THAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS Date 04/08/05

Time 191000 An Admowledgement of Receipt is requested to attn. Michael Lettona



CRG Project ID P2502 ax

CLIENT MWH	DATE RECEIVED	4 18 105
· ·		į į
	OURIER INFORMATION	
☐ CRG ☐ FEDEX ☐ OTHER* ☐ UPS	TRACKING NUMBER	.D A
	Cocca	<u> </u>
TEMPERATURE	Chain-of-Custody	SAMPLE MATRIX
BLUE ICE	☑INCLUDED	X LIQUID
9 °C ( WET ICE	SIGNED	SOLID
□ NO ICE	NOT INCLUDED	☐ OTHER*
CONDITION OF SAMPLI	ES UPON ARRIVAL	
All sample containers intact ar All samples listed on COC are Sample ID on containers cons Correct containers used for an All samples received within me	istent with COC	NO* NA
	*NOTES	
		e e e e e e e e e e e e e e e e e e e
		and the state of t
	COMPLETED E	BY: S. Clania

### BIG TUJUNGA WASH MITIGATION BANK WATER QUALITY MONITORING PROGRAM

**JUNE 2005 LABORATORY RESULTS** 



750 Royat Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: 626 386 1100 Fax: 626 386 1101 1 800 566 LABS (1 800 566 5227)

### Laboratory Report

for

Applied Research Dept, MWH (Darren Giles) 327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles Fax: (626) 359-3593

DATE OF ISSUE

LXG Linda Geddes Project Manager nelac 1114CA

Report#: 151123

BIG-TJ

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 22 page[s].

### CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive Suite 100 Monrovia Ca 91016 (626) 386-1100

	MWHLABS USE ONLY:	· · · · · · · · · · · · · · · · · · ·
ve Suite 100	LOGIN COMMENTS:	LOGIN COMMENTS: SAMPLES CHECKED/LOGGED IN BY:
(626) 386-1100	Transition of Proposition of Proposi	SAMPLE TEMP, RECEIPT AT LAB / 3 C. (Compliance: 4 +/- 2*C)
	\$	SAMPLES RECEIVED DAY OF COLLECTION? (check for yes)
		BLUE ICE: FROZEN X PARTIALLY FROZEN THAWED
V SAMPLER:		

COMPLIANCE SAMPLES   RECULATION:   PROJECT 1008 1 P.O.	TO BE COMPLETED BY SAMPLER:	A BY SAMPLER:											(che	(check for yes)	yes)						
December   Project John   Project	É							COM	LIAN	ICE S.	AMPL	ES.			REC	ULAT	ION:				
DENTIFIER, STATE ID#   CLEAR CODE   ANALYSES REQUIRED (mark an X' in all tests required	IAI requested							NON NON	- Req	uires s <b>?LIAN</b>	state    CE S	orms	Ċ.		S)	DWA,	hase V, M	PDES, FE	)A,)		
1342289.5620.051801 ARD-DG	PROJECT CODE		PROJECT JOB # / P.O.#	CLIEN	CODE		ä	E CH	TAC	TACH	En a	Ē	2 2		000	T AND	020				1
DENTIFIER, STATE ID#   AMALYSES REQUIRED (mark an Y in all tests required	Big TJ Sam	guile	1342289.5620.0518	ĺ	D-DC						3		5	ב ב	5	ANA I	953	4	(check	(check for yes)	- 1
DENTIFIER, STATE ID#   MANTER	CA MIDT EDITOR. DELL	The state of the s						AN	ALYSI	ES RE	OUIR	ED (m	ark ar	××	ı all te	sts req	uired for e	ach sam	ple line		
STTE NAME or   IDENTIFIER, STATE ID#   AND   STTE NAME or   IDENTIFIER, STATE ID#   AND   STTE 1   Inflow to TJ Pond #1   X   X   X   X   X   X   X   X   X	darren (3): rkii Darren (311ec	HED NAME AND SIGNALURE	hadinyyyydisky sa santyynia fairferin y rederlennin a taman a mae a m	Weldersplockers											<u></u>	<u> </u>					1
SITE NAME or   DENTIFIER, STATE ID#   AATTEIX   CRAIN     Jun   SITE 1   Inflow to TJ Pond #1   X   X   X   X   X   X   X   X   X	T CHES										ě	į	ļ		91					SAMPLER	
Jun   SITE 1   Inflow to TJ Pond #1   X   X   X   X   X   X   X   X   X			IDENTIFIER, STATE ID#		CEVB	COMP	T-P					Fecal Col	Total Col			нопичется				COMMENTS	
SITE 2   Outflow from TJ Pond #1			Inflow to TJ Pond #1		×		×	<b> </b>	<del> </del>		┨—	×	×	├	<del> </del>						1
Jun   SITE 2   Outflow from TJ Pond #1   X   X   X   X   X   X   X   X   X			Inflow to TJ Pond #2		×	72	×	<del> </del>	ļ	<u> </u>	┼	X	×	<del> </del>	+				1		1
Jun   SITE 2   Outflow from TJ Pond #2   X   X   X   X   X   X   X   X   X			Outflow from T.J Pond #1	,	×	F/2	×	<del> </del>	<del> </del>	-	×	×	×		┼						1
Jun   SITE 3   Big TJ Wash #1   X   X   X   X   X   X   X   X   X			Outflow from TJ Pond #2	~	×	10	×	╂	-	╂	×	×	×	-	<del> </del>	h. a		1/5			1
Jun         SITE 4         Haines Canyon Creek #1         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X <th< td=""><td></td><td></td><td>Big TJ Wash #1</td><td></td><td>×</td><td>e o</td><td>×</td><td>╁┈</td><td>-</td><td></td><td>×</td><td>×</td><td>×</td><td></td><td>-</td><td></td><td></td><td>文 三</td><td></td><td>X .</td><td>. 1</td></th<>			Big TJ Wash #1		×	e o	×	╁┈	-		×	×	×		-			文 三		X .	. 1
Jun   SITE 4   Haines Canyon Creek #1   X   X   X   X   X   X   X   X   X			Big TJ Wash #2		×	1	×	<del> </del>	-	╁	×	×	×	<del> </del>	<del></del>	h.a		7			1
SITE 4   Haines Canyon Creek #2   X   X   X   X   X   X   X   X   X			Haines Canyon Creek #1		×		×		<del> </del>	<del> </del>	×	×	×		+				+	<b>A</b>	1
TYPES: Reported by Volume;  RSW = Raw Surface Water  RGW = Raw Ground Water  CFW = Chlor(am)inated Finished Water  SIGNATURE  COMPANYITIE  COMPANYITIE  COMPANYITIE			Haines Canyon Creek #2		×		×	**********		ļ	×	×	×	<del> </del>	<del> </del>						1
TYPES: Reported by Volume:  RSW = Raw Surface Water  RGW = Raw Ground Water  CFW = Chlor(am)inated Finished Water  SIGNATURE  COMPANYITHE  COMPANYITHE	and the second s												11	1	2	30-6	1				[ ]
RSW = Raw Surface Water  RSW = Raw Surface Water  RGW = Raw Ground Water  CFW = Chlor(am)inated Finished Water  SIGNATURE  COMPANYITHE  COMPANYITHE  COMPANYITHE																					
RSW = Raw Surface Water  RGW = Raw Ground Water  CFW = Chlor(am)inated Finished Water  CFW = Chlor(am)inated Finished Water  SIGNATURE  COMPANYITTLE  COMPAN	MATRIX TY		olume;						AS		itorm	Water					Repo	orted by	Weigh	<u></u>	1
RGW = Raw Ground Water CFW = Chlor(am)inated Finished Water CWW = Chlorinated Waste Water SL = Sluc SIGNATURE COMPANYITILE		RSW = Raw Suri		= Other F	inishe	1 Wate	L		À		Other	Waste	Wate	<b>L</b>			80 =	Soil	)		
BY:  SIGNATURE  FRINT NAME  COMPANY/ITTLE  COMPANY/ITTLE  COMPANY/ITTLE  COMPANY/ITTLE  COMPANY/ITTLE  COMPANY/ITTLE		RGW = Raw Gr		/ = Chlor(a	ım)inat	ed Fini	shed V	Vater	5	WW =	Chlor	inated	Waste	Wate	بيؤ		ST =	- Sludge			
BY: XX MWY NED MWY NED 6/7	ř		3		PRE	VT NAM	( <del>12</del> )					COMP.	ANXZE	TLE				DATE	×	TIME	
	ELINQUIISHED BY	7		1			1	e!			2	153		(					V	12 18	
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SPECIAL INSTRUCTIONS

### MWH Laboratories

750 Royal Oaks Drive, Monrovia, CA 91016 PHONE: 626-386-1100/FAX: 626-386-1101

### ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue

Customer Code: ARD-DG

Monrovia, CA 91016

PO#: 1342289.5620.051801

Attn: Darren Giles

Group#: 151123

Phone: (626) 303-5945

Project#: BIG-TJ

Proj Mgr: Linda Geddes Phone: (626) 386-1163

The following samples were received from you on 06/30/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Samp:	le	Id	Tests Sc	heduled	Matrix		Sample D	ate
2506300315	SITE	1 1	INFLOW	TO TJ PO @DIAZEDD NO3A TURB		Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 12:30:00 NO3 TOTCOL
2506300321	SITE	1	INFLOW			Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 12:40:00 NO3 TOTCOL
2506300322	SITE	2	OUTFLO			Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 11:00:00 NO3 TOTCOL
2506300323	SITE	2	OUTFLO		and the second second second second	Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 11:15:00 NO3 TOTCOL
2506300324	SITE	3		WASH 1 @DIAZEDD NO3A TURB	FECCOL OPO4	Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 13:30:00 NO3 TOTCOL
2506300325	SITE	3			FECCOL OPO4	Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 13:40:00 NO3 TOTCOL
2506300326	SITE	4	HAINES	CYN CRK 1		Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 10:00:00 NO3 TOTCOL
2506300327	SITE	4	HAINES			Water GLYPHOS SIO2	NH3 T-P	30-jun-2 NO2-N TKN	005 10:15:00 NO3 TOTCOL

Test Acronym

Description

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue Monrovia, CA 91016

Attn: Darren Giles

Phone: (626) 303-5945

Customer Code: ARD-DG

PO#: 1342289.5620.051801

Group#: 151123 Project#: BIG-TJ

Proj Mgr: Linda Geddes Phone: (626) 386-1163

### Test Acronym Description

Test Acronym	Description
@DIAZEDD	Diazinon/Chlorpyrifos by GCMS
FECCOL	Fecal Coliform Bacteria
GLYPHOS	Glyphosate
NH3	Ammonia Nitrogen
NO2-N	Nitrite, Nitrogen by IC
NO3	Nitrate as Nitrogen by IC
NO3A	Nitrate as NO3 by IC (calc)
OPO4	Orthophosphate-P
SIO2	Silica
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TOTCOL	Total Coliform Bacteria
TURB	Turbidity



750 Royat Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: 626 386 1100 Fax: 626 386 1101 1 800 566 LABS (1 800 566 5227)

### Group Comments

Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA. ELAP 2261



750 Royat Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: 626 386 1100 Fax: 626 386 1101 1 800 566 LABS (1 800 566 5227)

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received

30-jun-2005 17:13:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2506300315	SITE 1 INFI	LOW TO TJ POND	1		
06/30/05 07/07/05 06/30/05 06/30/05 06/30/05 07/06/05 07/06/05 07/01/05	Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Silica Total Coliform Total phosphor Turbidity	gen by IC (calc rogen by IC -P Bacteria	50 0.24 20 4.6 0.024 34 2400 0.042 0.20	45 10	MPN/100 mL mg/l mg/l mg/l mg/l mg/l MPN/100 mL mg/l NTU	2.0 0.20 0.88 0.20 0.010 0.50 2.0 0.010 0.050
	2506300321	SITE 1 INFI	OW TO TJ POND	2		
06/30/05 07/07/05 06/30/05 06/30/05 06/30/05 07/06/05 07/06/05 07/01/05	Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Silica Total Coliform Total phosphor Turbidity	gen by IC (calc rogen by IC -P Bacteria	17 0.21 21 4.7 0.024 34 3500 0.012 0.30	45 10	MPN/100 mL mg/l mg/l mg/l mg/l mg/l mg/l mg/l MPN/100 mL mg/l MTU	2.0 0.20 0.88 0.20 0.010 0.50 2.0 0.010 0.050
	2506300322	SITE 2 OUTF	LOW FROM TJ PC	ND 1		
06/30/05 06/30/05 06/30/05 06/30/05 07/06/05	Fecal Coliform Nitrate as NO3 Nitrate as Nit Orthophosphate Silica	by IC (calc rogen by IC	170 12 2.6 0.028 30	45 10	MPN/100 mL mg/l mg/l mg/l mg/l	2.0 0.88 0.20 0.010 0.50



750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: 626 386 1100 Fax: 626 386 1101 1 800 566 LABS (1 800 566 5227)

Monrovia , CA

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue

91016

Samples Received

30-jun-2005 17:13:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2506300322	SITE 2 OUTFLOW	FROM TJ PO	OND 1		
06/30/05 07/06/05 07/01/05	Total Coliform Total phosphor Turbidity		16000 0.025 0.25		MPN/100 mL mg/l NTU	2.0 0.010 0.050
	2506300323	SITE 2 OUTFLOW	FROM TJ PO	OND 2		
06/30/05 07/07/05 06/30/05 06/30/05 06/30/05 07/06/05 07/06/05 07/06/05	Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Silica Total Coliform Total phosphor Turbidity	gen by IC (calc) rogen by IC -P Bacteria	170 0.34 12 2.6 0.029 30 2400 0.040 0.25	45 10	MPN/100 mL mg/l mg/l mg/l mg/l mg/l mg/l MPN/100 mL mg/l NTU	2.0 0.20 0.88 0.20 0.010 0.50 2.0 0.010 0.050
	2506300324	SITE 3 BIG TJ W	WASH 1			
06/30/05 07/06/05 06/30/05 07/06/05 07/01/05	Fecal Coliform Silica Total Coliform Total phosphore Turbidity	Bacteria	2 26 16000 0.013 0.20		MPN/100 mL mg/l MPN/100 mL mg/l NTU	2.0 0.50 2.0 0.010 0.050
	2506300325	SITE 3 BIG TJ W	IASH 2			
06/30/05 07/07/05 07/06/05	Fecal Coliform Kjeldahl Nitro Silica		13 0.36 26		MPN/100 mL mg/1 mg/1	2.0 0.20 0.50



750 Royal Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: 626 386 1100 Fax: 626 386 1101 1 800 566 LABS (1 800 566 5227)

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received

30-jun-2005 17:13:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2506300325	SITE 3 BIG TJ	WASH 2			
06/30/05 07/01/05	Total Coliform Turbidity	Bacteria	2200 0.30		MPN/100 mL NTU	2.0 0.050
	2506300326	SITE 4 HAINES	CYN CRK 1			
06/30/05 07/07/05 06/30/05 06/30/05 06/30/05 07/06/05 07/06/05 07/06/05	Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Silica Total Coliform Total phosphor Turbidity	gen by IC (calc) rogen by IC -P Bacteria	80 0.23 10 2.3 0.032 29 2400 0.033 0.25	<b>4</b> 5 10	MPN/100 mL mg/l mg/l mg/l mg/l mg/l mg/l MPN/100 mL mg/l NTU	2.0 0.20 0.88 0.20 0.010 0.50 2.0 0.010 0.050
	2506300327	SITE 4 HAINES	CYN CRK 2			
06/30/05 07/07/05 07/01/05 07/01/05 06/30/05 07/06/05 06/30/05 07/06/05	Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit: Orthophosphate Silica Total Coliform Total phosphore Turbidity	gen by IC (calc) rogen by IC -P Bacteria	110 0.21 9.9 2.3 0.031 30 900 0.030 0.20	45 10	MPN/100 mL mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 MPN/100 mL mg/1 NTU	2.0 0.20 0.88 0.20 0.010 0.50 2.0 0.010 0.050



750 Royat Oaks Drive, Suite 100 Monrovia, California 91016-3629 Tel: 626 386 1100 Fax: 626 385 1101 1 800 566 LABS (1 800 566 5227)

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received 06/30/05

Prepared	Analyzed	QC Ref#	Method		Analyte		Result	Units	MRL	Dilution
SITE	1 INFLOW T	O TJ	POND 1	(250	6300315)	Sampled	on 06/3	0/05 12	:30	
	06/30/05 15:33		( ML/SM922)	rc )	Fecal Coliform Bacte	ria	50	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 54	17 )	Glyphosate		ND	ug/l	6.0	1
	07/06/05 00:00	277821	( ML/EPA 35	50.1 )	Ammonia Nitrogen		ND	mg/l	0.050	1
	06/30/05 21:20	277404	( ML/EPA 30	0.00)	Nitrite, Nitrogen by	IC	ND	mg/1	0.20	2
	06/30/05 21:20	277407	(E 300.0/5	SW9056)	Nitrate as Nitrogen	by IC	4.6	mg/l	0.20	2
	06/30/05 21:20	277399	( ML/EPA 30	0.0)	Nitrate as NO3 by IC	(calc)	20	mg/l	0.88	2
	06/30/05 18:30	277413	{ 4500P-E/3	365.2 )	Orthophosphate-P		0.024	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 20	00.7 )	Silica		34	mg/l	0.50	1
	07/06/05 17:33	278169	( S4500PE/	365.1)	Total phosphorus-P		0.042	mg/l	0.010	1
	07/07/05 16:59	278159	( ML/EPA 35	51.2 )	Kjeldahl Nitrogen		0.24	mg/l	0.20	1
	06/30/05 15:33		( ML/SM9221	LB )	Total Coliform Bacte	ria	2400	MPNM	2.0	1
	07/01/05 19:49	277688	( ML/EPA 18	10.1 )	Turbidity		0.20	NTU	0.050	1
			Diazino	on/Cl	nlorpyrifos b	y GCMS				
	07/15/05 00:00		( EPA 625 M	(ODSUB	Diazinon	<del>-</del>	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 M	(BUBOO	Bolstar (Sulprofos)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	(ausoo	Chlorpyrifos		ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Demeton		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	(BUZGO)	Dichlorvos		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	(auzgoi	Disulfoton		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	(BUZGO)	Dimethoate		ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 M	(ODSUB	Ethoprop (Ethoprophos	;)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	(GUSGO	Fenchlorophos (Ronne	1)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Fensulfothion		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Fenthion		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Merphos		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Mevinphos (Phosdrin)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Malathion		ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Parathion-methyl		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Phorate		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 M	ODSUB)	Tokuthion		ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00	***************************************	( EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 1	L INFLOW T	O TJ	POND 2 (250	6300321) Sampled	on 06/3	0/05 12	2:40	
	06/30/05 15:38		( ML/SM9221C )	Fecal Coliform Bacteria	17	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 547 )	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277821	( ML/EPA 350.1 )	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 21:32	277404	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 21:32	277407	( E 300.0/SW9056)	Nitrate as Nitrogen by IC	4.7	mg/l	0.20	2
	06/30/05 21:32	277399	( ML/EPA 300.0 )	Nitrate as NO3 by IC (calc)	21	mg/l	0.88	2
	06/30/05 18:30	277413	( 4500P-E/365.2 )	Orthophosphate-P	0.024	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 200.7 )	Silica	34	mg/l	0.50	1
	07/06/05 17:33	278169	( S4500PE/ 365.1)	Total phosphorus-P	0.012	mg/l	0.010	1
	07/07/05 16:59	278159	( ML/EPA 351.2 )	Kjeldahl Nitrogen	0.21	mg/l	0.20	1
	06/30/05 15:38		( ML/SM9221B )	Total Coliform Bactería	3500	MPNM	2.0	1
	07/01/05 19:49	277688	( ML/EPA 180.1 )	Turbidity	0.30	NTU	0.050	1
			Diazinon/Cl	hlorpyrifos by GCMS				
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	5.0	1
	07/15/05 00:00			Bolstar (Sulprofos)	ND	-		
	07/15/05 00:00		( EPA 625 MODSUB)	•	ND	ng/l	10 5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	- ·	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND ND	ng/l		1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l ng/l	10 5.0	1
	07/15/05 00:00			Ethoprop (Ethoprophos)	ND	ng/1	10	1
	07/15/05 00:00			Fenchlorophos (Ronnel)	ND	ng/1	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	•	ND	ng/1	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	···	ND	ng/1	10	1
	07/15/05 00:00			Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	•	ND	ng/1	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	•	ND	ng/l	10	1
	. ,,		, 13VVVVV	m market are seen had her	141.7	114/1	1 17	.1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		( EPA 625 MOI	SUB) Tetrachlorovinphos (Sti	rophos) ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOI	SUB) Trichloronate	ND	ng/l	10	1
SITE 2	2 OUTFLOW	FROM	TJ POND 3	. (2506300322)	Sampled on	06/30/05	11:00	
	06/30/05 15:49		( ML/SM9221C	) Fecal Coliform Bacteria	170	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 547	) Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277821	( ML/EPA 350.	l ) Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 22:07	277404	( ML/EPA 300.	0 ) Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 22:07	277407	( E 300.0/SW9	056) Nitrate as Nitrogen by	IC 2.6	mg/l	0.20	2
	06/30/05 22:07	277399	( ML/EPA 300.	0 ) Nitrate as NO3 by IC (c	alc) 12	mg/l	0.88	2
	06/30/05 18:30	277413	( 4500P-E/365	.2 ) Orthophosphate-P	0.028	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 200.	7 ) Silica	30	mg/l	0.50	1
	07/06/05 17:33	278169	( S4500PE/ 36	5.1) Total phosphorus-P	0.025	mg/l	0.010	1
	07/07/05 16:59	278159	( ML/EPA 351.	2 ) Kjeldahl Nitrogen	ND	mg/l	0.20	1
	06/30/05 15:49		( ML/SM9221B	) Total Coliform Bacteria	16000	MPNM	2.0	1
	07/01/05 19:49	277688	( ML/EPA 180.	l ) Turbidity	0.25	NTU	0.050	1
			Diazinon	/Chlorpyrifos by	GCMS			
	07/15/05 00:00		( EPA 625 MOD	SUB) Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Demeton	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Ethoprop (Ethoprophos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Fenchlorophos (Ronnel)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Fenthion	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Merphos	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Parathion-methyl	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Phorate	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MOD	SUB) Tokuthion	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		( EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE	2 OUTFLOW	FROM '	TJ POND 2 (	2506300323) Sam	pled on	06/30/05	11:15	
	06/30/05 15:53		( ML/SM9221C )	Fecal Coliform Bacteria	170	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 547 )	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277821	( ML/EPA 350.1 )	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 22:41	277404	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 22:41	277407	( E 300.0/SW9056)	Nitrate as Nitrogen by IC	2.6	mg/l	0.20	2
	06/30/05 22:41	277399	( ML/EPA 300.0 )	Nitrate as NO3 by IC (calc)	12	mg/l	0.88	2
	06/30/05 18:30	277413	( 4500P-E/365.2 )	Orthophosphate-P	0.029	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 200.7 )	Silica	30	mg/l	0.50	1
	07/06/05 17:33	278169	( S4500PE/ 365.1)	Total phosphorus-P	0.040	mg/l	0.010	1
	07/07/05 16:59	278159	( ML/EPA 351.2 )	Kjeldahl Nitrogen	0.34	mg/l	0.20	1
	06/30/05 15:53		( ML/SM9221B )	Total Coliform Bacteria	2400	MPNM	2.0	1
	07/01/05 19:49	277688	( ML/EPA 180.1 )	Turbidity	0.25	NTU	0.050	1
			Diazinon/Ch	hlorpyrifos by GCMS				
	07/15/05 00:00		( EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1



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Prepared	i Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		( RPA 625 MODGIR)	Tetrachlorovinphos (Stirophos)	ND		7.0	1.
	07/15/05 00:00		( EPA 625 MODSUB)	•	ND	ng/l ng/l	10	1
	,,		,,	3.50.32.01.01.00	NL)	119/1	10	1
SITE	3 BIG TJ W	ASH 1	(250630032	4) Sampled on	06/30/05 1	3:30		
	06/30/05 15:57		( ML/SM9221C )	Fecal Coliform Bacteria	2	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 547 )	Glyphosate	ND	ug/l	6.0	1.
	07/06/05 00:00	277821	( ML/EPA 350.1 )	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 22:53	277404	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 22:53	277407	( E 300.0/SW9056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 22:53	277399	( ML/EPA 300.0 )	Nitrate as NO3 by IC (calc)	ИD	mg/l	0.88	2
	06/30/05 18:30	277413	( 4500P-E/365.2 )	Orthophosphate-P	ND	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 200.7 )	Silica	26	mg/l	0.50	1
	07/06/05 17:33	278169	( S4500PE/ 365.1)	Total phosphorus-P	0.013	mg/1	0.010	1
	07/07/05 16:59	278159	( ML/EPA 351.2 )	Kjeldahl Nitrogen	ND	mg/l	0.20	1
	06/30/05 15:57		( ML/SM9221B )	Total Coliform Bactería	16000	MPNM	2.0	1
	07/01/05 19:49	277688	( ML/EPA 180.1 )	Turbidity	0.20	NTU	0.050	1
			Diazinon/Cl	hlorpyrifos by GCMS				
	07/15/05 00:00		( EPA 625 MODSUB)		ND	m. /3	F 0	
	07/15/05 00:00		,	Bolstar (Sulprofos)	ND	ng/1	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	*		ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	<del></del>	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00			Ethoprop (Ethoprophos)	ND	ng/1	5.0	1
	07/15/05 00:00			Fenchlorophos (Ronnel)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	•	ND	ng/1	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00			-	ND	ng/l	10	1
	07/15/05 00:00			Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	-	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	01/13/03 60:00		( EPA 625 MODSUB)	ioxaciion	ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
V	07/15/05 00:00		( PDA COE MODOLID)	Tetrachlorovinphos (Stirophos)		/-		
	07/15/05 00:00					ng/l	10	1
	07/13/03 00:00		( EPA 625 MODSUB)	irichioronate	ND	ng/l	10	1
SITE	3 BIG TJ W	IASH 2	(250630032	5) Sampled on	06/30/05 1	3:40		
	06/30/05 16:01		( ML/SM9221C )	Fecal Coliform Bacteria	13	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 547 )	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277832	( ML/EPA 350.1 )	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 23:05	277404	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 23:05	277407	( E 300.0/SW9056)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	07/07/05 22:51		( ML/EPA 300.0 )	Nitrate as NO3 by IC (calc)	ND	mg/l	0.44	1
	06/30/05 18:30	277413	( 4500P-E/365.2 )	Orthophosphate-P	ND	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 200.7 )	Silica	26	mg/l	0.50	1
	07/06/05 17:33	278169	( S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.010	1
	07/07/05 16:59	278159	( ML/EPA 351.2 )	Kjeldahl Nitrogen	0.36	mg/l	0.20	1
	06/30/05 16:01		( ML/SM9221B )	Total Coliform Bacteria	2200	MPNM	2.0	1
	07/01/05 19:49	277688	( ML/EPA 180.1 )	Turbidity	0.30	NTU	0.050	1
	07/15/05 00:00		Diazinon/Cl	hlorpyrifos by GCMS	ND	/7	F 0	
	07/15/05 00:00			Bolstar (Sulprofos)	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	• •	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	- "	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	··· - ···	ND	ng/1	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l ng/l	10	1
	07/15/05 00:00			Ethoprop (Ethoprophos)	ND		5.0 10	1
	07/15/05 00:00			Fenchlorophos (Ronnel)	ND	ng/l ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l		
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10 10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00			Mevinphos (Phosdrin)	ND			_
	07/15/05 00:00		( EPA 625 MODSUB)	<del>-</del>	ND ND	ng/l ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/1 ng/1	5.0	-
	07/15/05 00:00		( EPA 625 MODSUB)		ND ND	٠.	10 10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND ND	ng/l	= -	1
	,,, , , ,		,,		ND	ng/l	10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
***************************************	07/15/05 00:00		( EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE	4 HAINES C	YN CRI	1 (250630	0326) Sampled on	06/30/05	10:00		
	06/30/05 16:06		( ML/SM9221C )	Fecal Coliform Bacteria	80	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 547 )	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277832	( ML/EPA 350.1 )	Ammonia Nitrogen	ND	mg/l	0.050	1
	06/30/05 23:16	277404	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	06/30/05 23:16	277407	( E 300.0/SW9056)	Nitrate as Nitrogen by IC	2.3	mg/l	0.20	2
	06/30/05 23:16	277399	( ML/EPA 300.0 )	Nitrate as NO3 by IC (calc)	10	mg/l	0.88	2
	06/30/05 18:30	277413	( 4500P-E/365.2 )	Orthophosphate-P	0.032	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 200.7 )	Silica	29	mg/l	0.50	1
	07/06/05 17:33	278169	( \$4500PE/ 365.1)	Total phosphorus-P	0.033	mg/l	0.010	1
	07/07/05 16:59	278159	( ML/EPA 351.2 )	Kjeldahl Nitrogen	0.23	mg/l	0.20	1.
	06/30/05 16:06		( ML/SM9221B )	Total Coliform Bacteria	2400	MPNM	2.0	1
	07/01/05 19:21	277687	( ML/EPA 180.1 )	Turbidity	0.25	NTU	0.050	1
			Diazinon/Cl	nlorpyrifos by GCMS				
	07/15/05 00:00		( EPA 625 MODSUB)	Diazinon	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Chlorpyrifos	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	Demeton	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
			/ EDS COL MODOUD!	Malathion	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)			3,		
	07/15/05 00:00 07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
				Parathion-methyl	ND ND	•	10 10	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	07/15/05 00:00		( EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE	4 HAINES C	YN CRI	2 (250630	0327) Sampled on	06/30/05	10:15		
	06/30/05 16:11		( ML/SM9221C )	Fecal Coliform Bacteria	110	MPNM	2.0	1
	07/05/05 00:00	277837	( ML/EPA 547 )	Glyphosate	ND	ug/l	6.0	1
	07/06/05 00:00	277832	( ML/EPA 350.1 )	Ammonia Nitrogen	ND	mg/l	0.050	1
	07/01/05 02:57	277405	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.20	2
	07/01/05 02:57	277408	( E 300.0/SW9056)	Nitrate as Nitrogen by IC	2.3	mg/l	0.20	2
	07/01/05 02:57	277400	( ML/EPA 300.0 )	Nitrate as NO3 by IC (calc)	9.9	mg/l	0.88	2
	06/30/05 18:30	277413	( 4500P-E/365.2 )	Orthophosphate-P	0.031	mg/l	0.010	1
	07/06/05 00:00	277772	( EPA/ML 200.7 )	Silica	30	mg/l	0.50	1
	07/06/05 17:33	278169	( \$4500PE/ 365.1)	Total phosphorus-P	0.030	mg/l	0.010	1
	07/07/05 16:59	278159	( ML/EPA 351.2 )	Kjeldahl Nitrogen	0.21	mg/l	0.20	1
	06/30/05 16:11		( ML/SM9221B )	Total Coliform Bacteria	900	MPNM	2.0	1
	07/01/05 19:21	277687	( ML/EPA 180.1 )	Turbidity	0.20	NTU	0.050	1
	07/15/05 00:00		Diazinon/Cl	nlorpyrifos by GCMS	ND	ng/l	5.0	1
	07/15/05 00:00		·	Bolstar (Sulprofos)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	<del>-</del>	ND	ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)	* *	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/1	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Dimethoate	ND	ng/l	5.0	1
	07/15/05 00:00			Ethoprop (Ethoprophos)	ND	ng/1	10	1
	07/15/05 00:00			Fenchlorophos (Ronnel)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	• • •	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Fenthion	ND	ng/1	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	07/15/05 00:00			Mevinphos (Phosdrin)	ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/i ng/l	5.0	1
	07/15/05 00:00		( EPA 625 MODSUB)		ND	ng/l	10	1
	07/15/05 00:00		( EPA 625 MODSUB)	•	ND	<b></b>		-
	01/12/02 00:00		( EFA 025 MUDSUB)	rnorace		ng/l	10	1



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Prepared Anal	yzed	QC Ref#	Method		Analyte		Result	Units	MRL	Dilution
07/1	5/05 00:00		( EPA 625	MODSUB)	Tetrachlorovinphos	(Stirophos)	ND	ng/l	10	1
07/1	5/05 00:00		( EPA 625	MODSUB)	Trichloronate		ND	ng/l	10	1



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Applied Research Dept, MWH (Darren Giles)

QC	Ref	#277399 - Nitrate a	s NO3 by IC (calc)	Analysis Date: 06/30/2005
		2506300315 2506300321 2506300322 2506300323 2506300324 2506300326	SITE 1 INFLOW TO SITE 1 INFLOW TO SITE 2 OUTFLOW F SITE 2 OUTFLOW F SITE 3 BIG TJ WA SITE 4 HAINES CY	TJ POND Analyzed by: gdt TJ POND Analyzed by: gdt ROM TJ POAnalyzed by: gdt ROM TJ POAnalyzed by: gdt SH 1 Analyzed by: gdt N CRK 1 Analyzed by: gdt
QC	Ref	#277400 - Nitrate a	s NO3 by IC (calc)	Analysis Date: 07/01/2005
		2506300327	SITE 4 HAINES CY	N CRK 2 Analyzed by: gdt
QC	Ref	#277404 - Nitrite,	Nitrogen by IC	Analysis Date: 06/30/2005
		2506300315 2506300321 2506300322 2506300323 2506300324 2506300325 2506300326	SITE 1 INFLOW TO SITE 1 INFLOW TO SITE 2 OUTFLOW FI SITE 2 OUTFLOW FI SITE 3 BIG TJ WAS SITE 3 BIG TJ WAS SITE 4 HAINES CYN	TJ POND Analyzed by: gdt TJ POND Analyzed by: gdt ROM TJ POAnalyzed by: gdt ROM TJ POAnalyzed by: gdt SH 1 Analyzed by: gdt SH 2 Analyzed by: gdt N CRK 1 Analyzed by: gdt
QC	Ref	#277405 - Nitrite,	Nitrogen by IC	Analysis Date: 07/01/2005
		2506300327	SITE 4 HAINES CYN	N CRK 2 Analyzed by: gdt
QC	Ref	#277407 - Nitrate as	s Nitrogen by IC	Analysis Date: 06/30/2005
		2506300315 2506300321 2506300322 2506300323 2506300324 2506300325 2506300326	SITE 3 BIG TJ WAS SITE 3 BIG TJ WAS	TJ POND Analyzed by: gdt TJ POND Analyzed by: gdt ROM TJ POAnalyzed by: gdt ROM TJ POND Analyzed by: gdt ROM TJ POND Analyzed by: gdt



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OG 70 5 HOREI 400	
QC Ref #277408 - Nitrate as	Nitrogen by IC Analysis Date: 07/01/2005
2506300327	SITE 4 HAINES CYN CRK 2 Analyzed by: gdt
QC Ref #277413 - Orthophosph	nate-P Analysis Date: 06/30/2005
2506300325 2506300326	SITE 1 INFLOW TO TJ POND Analyzed by: jle SITE 1 INFLOW TO TJ POND Analyzed by: jle SITE 2 OUTFLOW FROM TJ POAnalyzed by: jle SITE 2 OUTFLOW FROM TJ POAnalyzed by: jle SITE 3 BIG TJ WASH 1 Analyzed by: jle SITE 3 BIG TJ WASH 2 Analyzed by: jle SITE 4 HAINES CYN CRK 1 Analyzed by: jle SITE 4 HAINES CYN CRK 2 Analyzed by: jle
QC Ref #277687 - Turbidity	Analysis Date: 07/01/2005
	SITE 4 HAINES CYN CRK 1 Analyzed by: dyh SITE 4 HAINES CYN CRK 2 Analyzed by: dyh
QC Ref #277688 - Turbidity	Analysis Date: 07/01/2005
2506300323	SITE 1 INFLOW TO TJ POND Analyzed by: dyh SITE 1 INFLOW TO TJ POND Analyzed by: dyh SITE 2 OUTFLOW FROM TJ POAnalyzed by: dyh SITE 2 OUTFLOW FROM TJ POAnalyzed by: dyh SITE 3 BIG TJ WASH 1 Analyzed by: dyh SITE 3 BIG TJ WASH 2 Analyzed by: dyh
QC Ref #277772 - Silica	Analysis Date: 07/06/2005
2506300315 2506300321 2506300322 2506300323 2506300324 2506300325	SITE 1 INFLOW TO TJ POND Analyzed by: wbh SITE 1 INFLOW TO TJ POND Analyzed by: wbh SITE 2 OUTFLOW FROM TJ POAnalyzed by: wbh SITE 2 OUTFLOW FROM TJ POAnalyzed by: wbh SITE 3 BIG TJ WASH 1 Analyzed by: wbh SITE 3 BIG TJ WASH 2 Analyzed by: wbh



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		25063 25063	300326 300327	SITE		S CYN CRK			
QC	Ref	#277821	- Ammonia	Nitrogen		Anal	ysis Date:	07/06	/2005
		25063 25063 25063	300315 300321 300322 300323 300324	SITE	2 OUTFI	OW TO TJ PO OW TO TJ PO OW FROM TJ OW FROM TJ 'J WASH 1	POAnalvzed	d bv: 1	nina
QC	Ref	#277832	- Ammonia	Nitrogen		Anal	ysis Date:	07/06,	/2005
		25063	00325 00326 00327	SITE	4 HAINE	J WASH 2 S CYN CRK 2 S CYN CRK 2	Analyzed 1 Analyzed 2 Analyzed	l by: r	nina
QC	Ref	#277837	- Glyphos	ate		Analy	ysis Date:	07/05/	/2005
		25063 25063 25063 25063 25063	00315 00321 00322 00323 00324 00325 00326 00327	SITE SITE SITE SITE SITE SITE	1 INFLO 2 OUTFL 2 OUTFL 3 BIG T 3 BIG T 4 HAINE	W TO TJ PONW TO TJ PONOW FROM TJ OW FROM TJ J WASH 1 J WASH 2 S CYN CRK 1 S CYN CRK 2	ND Analyzed POAnalyzed POAnalyzed Analyzed Analyzed Analyzed Analyzed	l by: p l by: p l by: p l by: p l by: p	ohk ohk ohk ohk ohk ohk
QC	Ref	#278159	- Kjeldah	L Nitrogen		Analy	sis Date:	07/07/	2005
		25063 25063 25063 25063 25063 25063 25063	00321 00322 00323 00324 00325 00326	SITE SITE : SITE : SITE : SITE :	1 INFLO 2 OUTFLO 2 OUTFLO 3 BIG TO 3 BIG TO 4 HAINES	W TO TJ PON W TO TJ PON DW FROM TJ DW FROM TJ J WASH 1 J WASH 2 G CYN CRK 1 G CYN CRK 2	ID Analyzed POAnalyzed POAnalyzed Analyzed Analyzed Analyzed Analyzed	by: m	nal nal nal nal nal



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Applied Research Dept, MWH (Darren Giles) (continued)

### QC Ref #278169 - Total phosphorus-P

Analysis Date: 07/06/2005

2506300315	SITE	1	INFLOW TO TJ POND Analyzed by: ma	1
2506300321	SITE	1	INFLOW TO TJ POND Analyzed by: ma	J
2506300322	SITE	2	OUTFLOW FROM TJ POAnalyzed by: ma	.1
2506300323	SITE	2	OUTFLOW FROM TJ POAnalyzed by: ma	.1.
2506300324	SITE	3	BIG TJ WASH 1 Analyzed by: ma	1
2506300325	SITE	3	BIG TJ WASH 2 Analyzed by: ma	.1
2506300326	SITE	4	HAINES CYN CRK 1 Analyzed by: ma	1
2506300327	SITE	4	HAINES CYN CRK 2 Analyzed by: ma	1



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Applied Research Dept, MWH (Darren Giles)

QC Ref #277404	Nitrite,	Nitrogen	by	IC
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QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300293	MGL	0.0	( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.04	MGL	104.0	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	( 90-110 )	0.97
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	1.0	0.993	MGL	99.3	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	1.0	0.995	MGL	99.5	( 90-110 )	0.20

### QC Ref #277405 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300319	MGL	0.0	( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.04	MGL	104.0	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.04	MGL	104.0	( 90-110 )	0.00
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	1.0	1.02	MGL	102.0	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	( 90-110 )	0.98

### QC Ref #277407 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	06300293	MGL	0.0	( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.49	MGL	99.6	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.5	MGL	100.0	( 90~110 )	0.40
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.42	MGL	96.8	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	2.5	2.42	MGL	96.8	( 90-110 )	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



QC Ref #277408

QC Ref #277687

Analyte

Turbidity

QC

DUP

Applied Research Dept, MWH (Darren Giles) (continued)

						- 4 4	(0.)
QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
aaspksmp	Spiked sample	Lab # 25	06300319	MGL	0.0	( 0-0 )	
LCSI	Nitrate as Nitrogen by IC	2.5	2.5	MGL	100.0	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.51	MGL	100.4	( 90-110 )	0.40
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.33	MGL	93.2	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	2.5	2.37	MGL	94.8	( 90~110 )	1.7
	110000440 0 · 1 1	*	_				
QC Ref	#277413 Orthopho	sphate	:-P				
QC Ref	#277413 Orthopho	sphate	e-P	Units	Yield (%)	Limits (%)	RPD (%)
	•	_		Units MGL	Yield (%)	Limits (%)	RPD (%)
QC	Analyte	Spiked	Recovered		Yield (%)		RPD (%)
QC MS	Analyte Spiked sample	Spiked Lab # 25	Recovered	MGL	,	( 0-0 )	RPD (%)
QC MS LCS1	Analyte Spiked sample Orthophosphate-P	Spiked Lab # 25	Recovered 06300176 0.497	mgl mgl	99.4	( 0-0 ) ( 90-110 )	, ,
QC MS LCS1 LCS2	Analyte Spiked sample Orthophosphate-P Orthophosphate-P	Spiked Lab # 25 0.5	Recovered 06300176 0.497 0.498	MGL MGL	99.4	( 0-0 ) ( 90-110 )	, ,
QC MS LCS1 LCS2 MBLK	Analyte Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P	Spiked Lab # 25 0.5 0.5	Recovered 06300176 0.497 0.498 <0.010	MGL MGL	99.4 99.6	( 0-0 ) ( 90-110 ) ( 90-110 )	, ,

Spiked

0.111

Recovered

NTU

0.112

Turbidity

Nitrate as Nitrogen by IC

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

( 0-20 )

Units Yield (%) Limits (%)

RPD (%)

0.9



Applied Research Dept, MWH (Darren Giles) (continued)

QC Ref	#277688	Turbidi	ty					
QC .	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity		0.023	0.025	NTU		( 0-20 )	8.3
QC Ref	#277772	Silica						
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample		Lab # 25	06300195	MGL		( 0~0 )	
LCS1	Silíca		21.4	20.8	MGL	97.2	( 85-115 )	
LCS2	Silíca		21.4	21.0	MGL	98.1	( 85-115 )	0.96
MBLK	Silica		ND	<0.50	MGL			
MS	Silica		21.4	21.0	MGL	98.1	( 70-130 )	
MSD	Silica		21.4	20.8	NGL	97.2	( 70-130 )	0.96
QC Ref	#277821	Ammonia	Nitrog	en				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	06300176	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen		1.00	1.04	MGL	104.0	( 90-110 )	
LCS2	Ammonia Nitrogen		1.00	1.04	MGL	104.0	( 90-110 )	0.00
MBLK	Ammonia Nitrogen		ND	<0.050	MGL			
MS	Ammonia Nitrogen		1.00	1.06	MGL	106.0	( 90-110 )	
MSD	Ammonia Nitrogen		1.00	1.06	MGL	106.0	( 90-110 )	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



Applied Research Dept, MWH (Darren Giles) (continued)

QC Ref	#277832	Ammonia	Nitro	gen				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	06300325	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen		1.00	1.03	MGL	103.0	( 90-110 )	
LCS2	Ammonia Nitrogen		1.00	1.03	MGL	103.0	( 90-110 )	0.00
WBLK	Ammonia Nitrogen		ND	<0.050	MGL			
MS	Ammonia Nitrogen		1.00	1.01	MGL	101.0	( 90-110 )	
MSD	Ammonia Nitrogen		1.00	0.985	MGL	98.5	( 90-110 )	2.5
QC Ref	#277837	Glyphosa	ıte					
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	06300274	UGL		( 0-0 )	
LCS1	Glyphosate		10	9.09	UGL	90.9	( 70-130 )	
MBLK	Glyphosate		ND	<6.0	UGL			
MS	Glyphosate		10	9.55	UGL	95.5	( 70-130 )	
MSD	Glyphosate		10	9.88	UGL	98.8	( 70-130 )	3.4
QC Ref	#278159	Kjeldahl	. Nitro	gen				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	06300321	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen		4	4.20	MGL	105.0	( 90-110 )	
LCS2	Kjeldahl Nitrogen		4	3.80	MGL	95.0	( 90-110 )	10
MBLK	Kjeldahl Nitrogen		ND	<0.20	MGL			
MS	Kjeldahl Nitrogen		4	4.08	MGL	102.0	( 90-110 )	
MSD	Kjeldahl Nitrogen		4	3.94	MGL	98.5	( 90-110 )	3.5
RPD_LCS	Kjeldahl Nitrogen		105.000	95.000	MGL	10.0	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen		102.000	98.500	MGL	3.5	( 0-10 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



Applied Research Dept, MWH (Darren Giles) (continued)

### QC Ref #278169 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	06300315	MGL		( 0-0 }	
rcsi	Total phosphorus-P	0.4	0.420	MGL	105.0	( 90-110 )	
LCS2	Total phosphorus-P	0.4	0.390	MGL	97.5	( 90-110 )	7.4
MBLK	Total phosphorus-P	ND	<0.010	MGL			
MS	Total phosphorus-P	0.4	0.390	MGL	97.5	( 90-110 )	
MSD	Total phosphorus-P	0.4	0.390	MGL	97.5	( 90-110 )	0.00
RPD_LCS	Total phosphorus-P	105.000	97.500	MGL	7.4	( 0-10 )	
RPD_MS	Total phosphorus-P	97.500	97.500	MGL	0.0	( 0-10 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

2020 Del Amo Blvd. Suite 200, Torrance, CA 90501 • (310) 533-5190 • FAX (310) 533-5003 • mmercier@crglabs.com

July 18, 2005

MWH Laboratories 70 Royal Oaks Dr., Suite 100 Monrovia, CA 91016-3629

Re: CRG Project ID: P2502ay

MWH Project: 151123 MWH Sub PO: 99-17413

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 151123 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on June 5, 2005. Per your instructions, the samples were analyzed for:

• Organophosphorus Pesticides By GCMS Using EPA Method 625

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards, Misty B. Mercier Project Manager



Client: MWH	Laboratories						CRG Pro	2502ay	
CRG ID#:         26191           Replicate #:         R1           Batch ID:         2502-1           Instrument:         GC/MS	4033 6 #2 Shimadzu QP2010	Sample Description: Matrix: Analyst:	2506300315 Project #15112 Wastewater D. Gonsman	SITE 1 IN 3 / PO #99-17413	FLOW TO TJ PON	ND 1	Date Sampl Date Receiv Date Proces Date Analyz	/ed: 05-Jul-0 ssed: 07-Jul-0	5 5
CONSTITUENT	FRACTI	ON N	ИЕТНОD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	I	EPA 625	105	% Recovery			1	46 - 119%
(PCB112)	Total	E	EPA 625	102	% Recovery			1	52 - 123%
(PCB198)	Total		EPA 625	100	% Recovery			1	59 - 123%
(TCMX)	Total	E	EPA 625	103	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	E	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	Į.	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	E	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	Į.	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	i i	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos	) Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronne	el) Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	I	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin	) Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	i i	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (St	irofos) Total	E	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total		EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total		EPA 625	ND	ng/L	10	20	1	NA

Client: MWH Labora	atories					CRG Pro	oject ID:	2502ay
CRG ID#:         26192           Replicate #:         R1           Batch ID:         2502-14033           Instrument:         GC/MS #2 Shimac	Sample Description: Matrix: dzu QP2010 Analyst:	2506300321 Project #151123 Wastewater D. Gonsman		NFLOW TO TJ PON	ID 2	Date Sampl Date Receiv Date Proces Date Analyz	ved: 05-Jul-( ssed: 07-Jul-(	D5 D5
CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	96	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	96	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

Client: MWH Lal	boratories							oject ID:	2502ay
CRG ID#: 26193 Replicate #: R1 Batch ID: 2502-14033 Instrument: GC/MS #2 S		Sample Description: Matrix: Analyst:	2506300322 Project #15112 Wastewater D. Gonsman	SITE 2 OI 23 / PO #99-17413	JTFLOW FR TJ P	OND1	Date Sampl Date Receiv Date Proces Date Analyz	/ed: 05-Jul-0 ssed: 07-Jul-0	)5 )5
CONSTITUENT	FRACTIO	ON I	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total		EPA 625	93	% Recovery			1	46 - 119%
(PCB112)	Total		EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total		EPA 625	92	% Recovery			1	59 - 123%
(TCMX)	Total		EPA 625	92	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total		EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total		EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total		EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total		EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total		EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total		EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total		EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total		EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total		EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total		EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total		EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total		EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total		EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total		EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total		EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total		EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	) Total		EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total		EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total		EPA 625	ND	ng/L	10	20	1	NA

Client: MWF	l Laboratories						CRG Pro	oject ID:	2502ay
CRG ID#: 26194 Replicate #: R1 Batch ID: 2502- Instrument: GC/M			2506300323 Project #15112 Wastewater D. Gonsman	SITE 2 OU 3 / PO #99-17413	JTFLOW FR TJ P	OND2	Date Sampl Date Receiv Date Proces Date Analyz	red: 05-Jul-0 ssed: 07-Jul-0	05 05
CONSTITUENT	FRACTI	ON M	ЕТНОВ	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	E	PA 625	95	% Recovery			1	46 - 119%
(PCB112)	Total	E	PA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	E	PA 625	94	% Recovery			1	59 - 123%
(TCMX)	Total	E	PA 625	95	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	E	PA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	E	PA 625	ND	ng/L	5	10	1	NA
Demeton	Total	E	PA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	E	PA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	E	PA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	E	PA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	E	PA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofo	s) Total	E	PA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronn	el) Total	E	PA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	E	PA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	E	PA 625	ND	ng/L	10	20	1	NA
Malathion	Total	E	PA 625	ND	ng/L	5	10	1	NA
Merphos	Total	E	PA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	E	PA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin	n) Total	E	PA 625	ND	ng/L	10	20	1	NA
Phorate	Total	E	PA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (S	Stirofos) Total	E	PA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	E	PA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	E	PA 625	ND	ng/L	10	20	1	NA

Client: MWH Labora	atories					CRG Pro	oject ID:	2502ay
CRG ID#:         26195           Replicate #:         R1           Batch ID:         2502-14033           Instrument:         GC/MS #2 Shimac	Sample Description Matrix: dzu QP2010 Analyst:	2506300324 : Project #151123 / Wastewater D. Gonsman		BIG TJ WASH 1		Date Sampl Date Receiv Date Proces Date Analyz	/ed: 05-Jul-0 ssed: 07-Jul-0	)5 )5
CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	97	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	100	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	98	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

Client: MWH Labora	atories					CRG Pro	oject ID:	2502ay
CRG ID#:         26196           Replicate #:         R1           Batch ID:         2502-14033           Instrument:         GC/MS #2 Shimac	Sample Description: Matrix: dzu QP2010 Analyst:	2506300325 Project #151123 Wastewater D. Gonsman		BIG TJ WASH 2		Date Sampl Date Receiv Date Proces Date Analyz	/ed: 05-Jul-0 ssed: 07-Jul-0	05 05
CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	92	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	98	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	96	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	92	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

Client: MWH Labora	atories					CRG Pro	oject ID:	2502ay
CRG ID#:       26197         Replicate #:       R1         Batch ID:       2502-14033         Instrument:       GC/MS #2 Shimad	Sample Description: Matrix: dzu QP2010 Analyst:	2506300326 Project #15112 Wastewater D. Gonsman	SITE 4 F 3 / PO #99-17413	HAINES CYN CRK 1		Date Sampl Date Receiv Date Proces Date Analyz	/ed: 05-Jul-0 ssed: 07-Jul-0	05 05
CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	99	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	100	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	98	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	98	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

Client: MWH Labora	atories					CRG Pro	oject ID:	2502ay
CRG ID#:         26198           Replicate #:         R1           Batch ID:         2502-14033           Instrument:         GC/MS #2 Shimac	Sample Description: Matrix: dzu QP2010 Analyst:	2506300327 Project #151123 Wastewater D. Gonsman		HAINES CYN CRK 2		Date Sampl Date Receiv Date Proces Date Analyz	/ed: 05-Jul-0 ssed: 07-Jul-0	05 05
CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	94	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	99	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	100	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	97	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA

# **QUALITY CONTROL REPORT**

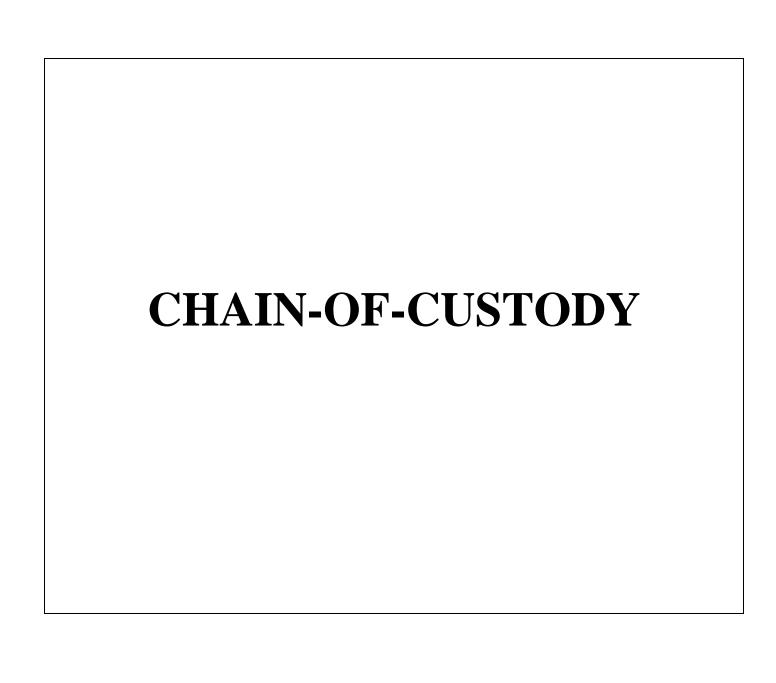
# Organophosphorus Pesticides

**MWH Laboratories CRG Project ID:** Client: 2502ay

**QAQC** CRG ID#: 26190 Sample Procedural Blank Date Sampled: Description: Project #151123 / PO #99-17413 Replicate #: B1 Date Received:

DI Water Batch ID: 2502-14033 Matrix: **Date Processed:** 07-Jul-05 D. Gonsman Instrument: GC/MS #2 Shimadzu QP2010 Analyst: 15-Jul-05 Date Analyzed:

CONSTITUENT	FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total	EPA 625	100	% Recovery			1	46 - 119%
(PCB112)	Total	EPA 625	100	% Recovery			1	52 - 123%
(PCB198)	Total	EPA 625	99	% Recovery			1	59 - 123%
(TCMX)	Total	EPA 625	100	% Recovery			1	40 - 110%
Bolstar (Sulprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Chlorpyrifos	Total	EPA 625	ND	ng/L	5	10	1	NA
Demeton	Total	EPA 625	ND	ng/L	10	20	1	NA
Diazinon	Total	EPA 625	ND	ng/L	5	10	1	NA
Dichlorvos	Total	EPA 625	ND	ng/L	10	20	1	NA
Dimethoate	Total	EPA 625	ND	ng/L	5	10	1	NA
Disulfoton	Total	EPA 625	ND	ng/L	10	20	1	NA
Ethoprop (Ethoprofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenchlorphos (Ronnel)	Total	EPA 625	ND	ng/L	10	20	1	NA
Fensulfothion	Total	EPA 625	ND	ng/L	10	20	1	NA
Fenthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Malathion	Total	EPA 625	ND	ng/L	5	10	1	NA
Merphos	Total	EPA 625	ND	ng/L	10	20	1	NA
Methyl Parathion	Total	EPA 625	ND	ng/L	10	20	1	NA
Mevinphos (Phosdrin)	Total	EPA 625	ND	ng/L	10	20	1	NA
Phorate	Total	EPA 625	ND	ng/L	10	20	1	NA
Tetrachlorvinphos (Stirofos)	Total	EPA 625	ND	ng/L	10	20	1	NA
Tokuthion	Total	EPA 625	ND	ng/L	10	20	1	NA
Trichloronate	Total	EPA 625	ND	ng/L	10	20	1	NA





Ship To Misty B. Mercier **CRG MARINE** 

2020 Del Amo Blvd Suite 200 Torrance, CA 90501-1206

(310) 533-5190 x106

(310) 533-5003 Fax

MWH Project # Report Due:

Sub PO# 07/20/05 151123

99-17413

mg¬

Date

07/05/05

Submittal Form & Purchase Order 99-17413

*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers! Report & Invoice must have the MWH Project Number 151123 Sub PO# 99-17413 and Job #

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

> Reports: Michael Lettona Sub-contracting Administrator EMAIL TO: Michael.Lettona@mwhglobal.com MWH Laboratories 750 Royal Oaks Dr. Monrovia, CA 91016 Phone (626) 386-1137 Fax (626) 386-1095 Invoices to: MWH LABORATORIES Accounts Payable PO BOX 7009, Pasadena, CA 91109-7009

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix

CA ELAP WW

### HOLDING TIME IS UP ON THURSDAY, 7/7. Please analyze ASAP. THANKS!

	Lab.# fer ID	Client Sample ID for reference o	nly Analysis Requested	Sample Date & Time	Matrix	C Container
@DIAZEDD	2506300315	SITE 1 INFLOW TO TJ POND 1	DIAZINON & CHLORPYRIFOS by 625	06/30/05 12:3	30 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
@DIAZEDD	2506300321	SITE 1 INFLOW TO TJ POND 2	DIAZINON & CHLORPYRIFOS by 625	06/30/05 12:4	10 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
@DIAZEDD	2506300322	SITE 2 OUTFLOW FROM TJ POND	DIAZINON & CHLORPYRIFOS by 625	06/30/05 11:0	00 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
@DIAZEDD	2506300323	SITE 2 OUTFLOW FROM TJ POND2	2 DIAZINON & CHLORPYRIFOS by 625	06/30/05 11:1	5 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
@DIAZEDD	2506300324	SITE 3 BIG TJ WASH 1	DIAZINON & CHLORPYRIFOS by 625	06/30/05 13:3	30 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
@DIAZEDD	2506300325	SITE 3 BIG TJ WASH 2	DIAZINON & CHLORPYRIFOS by 625	06/30/05 13:4	0 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
@DIAZEDD	2506300326	SITE 4 HAINES CYN CRK 1	DIAZINON & CHLORPYRIFOS by 625	06/30/05 10:0	00 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU
@DIAZEDD	2506300327	SITE 4 HAINES CYN CRK 2	DIAZINON & CHLORPYRIFOS by 625	06/30/05 10:1	5 ww	3 1L amber glass+ buffer+ascorbic+EDTA+DZU

20191-26198

Sample Control

Date 07/05/05

MUST HAVE NOTIFICAION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS

An Acknowledgement of Receipt is requested to attn: Michael Lettona

Relinquished by:

Received



CRG Project ID P2502ay

CLIENT NAME	HWM	DATE RECEIVED	7/5/05
HAND IN THE PROPERTY OF THE PARTY OF THE PAR			7 /
	C	OURIER INFORMATION	
□ CRG	☐ FEDEX ER* ☐ UPS	TRACKING NUMBER	
LY OTHE	ER" [] UPS	NOWIDEN	<u> </u>
State of digital			
l len	IPERATURE  ☑ BLUE ICE	Chain-of-Custody  ☑ ⊮CLUDED	SAMPLE MATRIX  V LIQUID
1	°C  WET ICE	SIGNED	SOLID
U	□ NO ICE	☐ NOT INCLUDED	☐ OTHER*
CONDIT	TION OF SAMPLE	S UPON ARRIVAL	
		YES	NO* NA
,	e containers intact ar es listed on COC are	nd good condition	
	O on containers cons		
1	ontainers used for an		
All Sample	es received within me	ethod holding time	
		*NOTES	
			,
			1-1
		OOMBLETED !	
		COMPLETED	3Y: 40 1

# BIG TUJUNGA WASH MITIGATION BANK WATER QUALITY MONITORING PROGRAM

**OCTOBER 2005 LABORATORY RESULTS** 



### Laboratory Report

for

Applied Research Dept, MWH (Darren Giles) 327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles Fax: (626) 359-3593

DATE OF ISSUE

LXG Linda Geddes Project Manager



Report#: 159681 BIG-TJ

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments,QC Report,QC Summary,Data Report,Hits Report, totaling 20 page[s].



# CHAIN OF CUSTODY RECORD

(Compliance: 4 +/- 2*C) (check for yes) (check for yes) THAWED ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line) (SDWA, Phase V, NPDES, FDA,...) BLUE ICE: FROZEN PARTIALLY FROZEN SAMPLES RECEIVED DAY OF COLLECTION? REGULATION: REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES SAMPLES CHECKED/LOGGED IN BY: SAMPLE TEMP, RECEIPT AT LAB (check for yes) NON-COMPLIANCE SAMPLES - Requires state forms COMPLIANCE SAMPLES 1342289.5620.051801 ARD-DG CLIENT CODE LOGIN COMMENTS: MWHLABS USE ONLY: PROJECT JOB #/P.O.# SAMPLER(S): PRINTED NAME AND SIGNATURE Monrovia Ca 91016 (626) 386-1100 TAT requested: STANDARD 750 Royal Oaks Drive Suite 100 TO BE COMPLETED BY SAMPLER: Big TJ Sampling PROJECT CODE Darren Giles

### MWH Laboratories

750 Royal Oaks Drive, Monrovia, CA 91016 PHONE: 626-386-1100/FAX: 626-386-1101

### ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue

Monrovia, CA 91016 Attn: Darren Giles

Phone: (626) 303-5945

Customer Code: ARD-DG

PO#: 1341410.5620.011801

Group#: 159681 Project#: BIG-TJ

Proj Mgr: Linda Geddes Phone: (626) 386-1163

The following samples were received from you on 10/25/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id		Matrix	Sample Date			
		Tests Scheduled	- · · · ·	Dample Date			
2510250143	SITE 1 INFLOW	TO TJ POND 1 @DIAZEDD FECCOL	Water GLYPHOS NH3	25-oct-2005 11:30:00 NO2-N NO3			
2510250149	SITE 1 INFLOW	NO3A OPO4 TO TJ POND 2 @DIAZEDD FECCOL	T-P TKN Water GLYPHOS NH3	TOTCOL TURB 25-oct-2005 11:45:00 NO2-N NO3			
2510250150		NO3A OPO4 W FRM TJ POUND 1 @DIAZEDD FECCOL NO3A OPO4	GLYPHOS NH3	TOTCOL TURB 25-oct-2005 12:30:00 NO2-N NO3			
2510250151	SITE 2 OUTFLO	W FRM TJ POUND 2 @DIAZEDD FECCOL	Water GLYPHOS NH3	TOTCOL TURB 25-oct-2005 12:40:00 NO2-N NO3			
2510250152	SITE 3 BIG TJ	@DIAZEDD FECCOL	T-P TKN Water GLYPHOS NH3	TOTCOL TURB 25-oct-2005 13:20:00 NO2-N NO3			
2510250153	SITE 3 BIG TJ	@DIAZEDD FECCOL	T-P TKN Water GLYPHOS NH3	TOTCOL TURB 25-oct-2005 13:30:00 NO2-N NO3			
2510250154	SITE 4 HAINES	@DIAZEDD FECCOL	T-P TKN Water GLYPHOS NH3	TOTCOL TURB 25-oct-2005 10:00:00 NO2-N NO3			
2510250155	SITE 4 HAINES	NO3A OPO4 CANYON CREEK 2 @DIAZEDD FECCOL	T-P TKN Water	TOTCOL TURB 25-oct-2005 10:15:00			
		NO3A OPO4	GLYPHOS NH3 T-P TKN	NO2-N NO3 TOTCOL TURB			
	Test Acronym Description						
Test Acro	onym Descri	ption	-				

Test Acronym	Description
	Diazinon/Chlorpyrifos by GCMS Fecal Coliform Bacteria Glyphosate Ammonia Nitrogen Nitrite, Nitrogen by IC

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue Monrovia, CA 91016

Attn: Darren Giles Phone: (626) 303-5945

Customer Code: ARD-DG

PO#: 1341410.5620.011801

Group#: 159681 Project#: BIG-TJ

Proj Mgr: Linda Geddes Phone: (626) 386-1163

### Test Acronym Description

Test Acronym	Description
NO3	Nitrate as Nitrogen by IC
NO3A	Nitrate as NO3
T-Profes	Total phosphorus-P
* 7 77 4	riciani nifiodeli
TOTCOL	Total Coliform Bacteria
TURB	Turbidity



### Group Comments

Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA. ELAP 2261

(QC Ref#: 2510250149)

Test: Total phosphorus-P (S4500PE/ 365.1)

M1 - Matrix spike recovery was high, the method control sample recovery was acceptable.

(QC Ref#: 292533)

Test: Nitrite, Nitrogen by IC (ML/EPA 300.0)

QC Type: MS

Recovery above method limits. Default to LCS1, LCS2.

QC Type: MSD

Recovery above method limits. Default to LCS1, LCS2.

(QC Ref#: 293698)

Test: Kjeldahl Nitrogen (ML/EPA 351.2)

QC Type: MS

Recovery above method limits. Default to LCS1, LCS2.

QC Type: MSD

Recovery above method limits. Default to LCS1, LCS2.



Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received 25-oct-2005 15:45:58

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2510250143	SITE 1 INFLOW	TO TJ POND	1		
11/09/05 10/25/05 11/02/05 10/25/05 10/25/05 10/25/05 10/25/05	Ammonia Nitro Fecal Colifor Kjeldahl Nitr Nitrate as No Nitrate as Ni Orthophosphat Total Colifor Turbidity	m Bacteria rogen 03 (calc) trogen by IC :e-P	0.08 50 0.35 12 2.8 0.040 1400 0.50	45 10 5	mg/l MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL NTU	0.05 2 0.2 0.88 0.2 0.01 2
	2510250149	SITE 1 INFLOW	TO TJ POND	2		
11/09/05 10/25/05 11/02/05 10/25/05 10/25/05 10/25/05 10/25/05 11/07/05 10/25/05	Ammonia Nitro Fecal Colifor Kjeldahl Nitr Nitrate as NO Nitrate as Ni Orthophosphat Total Colifor Total phospho Turbidity	m Bacteria ogen 3 (calc) trogen by IC e-P m Bacteria	0.09 13 0.31 12 2.8 0.039 1100 0.031 0.60	45 10 5	mg/l MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL mg/l NTU	0.05 2 0.2 0.88 0.2 0.01 2 0.01 0.05
	2510250150	SITE 2 OUTFLOW	FRM TJ PO	UND 1		
11/09/05 10/25/05 11/02/05 10/25/05 10/25/05 10/25/05	Ammonia Nitrog Fecal Colifor Kjeldahl Nitrog Nitrate as NO Nitrate as Nit Orthophosphate	m Bacteria ogen B (calc) crogen by IC	0.09 50 0.30 13 2.9 0.040	45 10	mg/l MPN/100 mL mg/l mg/l mg/l mg/l	0.05 2 0.2 0.88 0.2 0.01



Monrovia , CA

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue

91016

Samples Received

25-oct-2005 15:45:58

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2510250150	SITE 2 OUTFLOW	FRM TJ	POUND 1		
10/25/05 10/25/05	Total Coliform Turbidity	n Bacteria	3000 0.65	5	MPN/100 mL NTU	2 0.05
	2510250151	SITE 2 OUTFLOW	FRM TJ P	OUND 2		
11/09/05 10/25/05 11/02/05 10/25/05 10/25/05 10/25/05 10/25/05 10/25/05	Ammonia Nitrog Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Total Coliform Turbidity	Bacteria gen (calc) rogen by IC -P	0.09 50 0.28 13 2.9 0.040 500 0.70	45 10 5	mg/l MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL NTU	0.05 2 0.2 0.88 0.2 0.01 2
	2510250152	SITE 3 BIG TJ W	ASH 1			
10/25/05 11/02/05 10/25/05 10/25/05	Fecal Coliform Kjeldahl Nitro Total Coliform Turbidity	gen	17 0.24 700 3.5	5	MPN/100 mL mg/l MPN/100 mL NTU	2 0.2 2 0.05
	2510250153	SITE 3 BIG TJ W	ASH 2			
10/25/05 11/02/05 10/25/05 10/25/05	Fecal Coliform Kjeldahl Nitrog Total Coliform Turbidity	gen	13 0.24 1600 3.6	5	MPN/100 mL mg/1 MPN/100 mL NTU	2 0.2 2 0.05
	2510250154	SITE 4 HAINES CA	NYON CRE	EK 1		

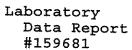


Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received

25-oct-2005 15:45:58

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2510250154	SITE 4 HAINES	CANYON CREE	K 1		
10/25/05 11/02/05 10/25/05 10/25/05 10/25/05 10/25/05 10/25/05	Kjeldahl Nitr Nitrate as NO Nitrate as Ni Orthophosphate Total Colifor	ogen 3 (calc) trogen by IC e-P	80 0.34 12 2.8 0.044 1600	45 10 5	MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL NTU	2 0.2 0.88 0.2 0.01 2
	2510250155	SITE 4 HAINES	CANYON CREE	K 2		
10/25/05 11/02/05 10/25/05 10/25/05 10/25/05 10/25/05 10/25/05	Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Total Coliform Turbidity	ogen 3 (calc) crogen by IC e-P	130 0.27 12 2.8 0.042 2200 0.50	45 10 5	MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL NTU	2 0.2 0.88 0.2 0.01 2





Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received 10/25/05

Prepared Analyzed	QC Ref# Method	Analyte	Result	Units	MRL	Dilution
	TJ POND 1 (25)	10250143) Sampled	on 10/25	5/05 1:	1:30	
10/25/05 15:58	( ML/SM9221C	) Fecal Coliform Bactería	50	MPNM	2	1
10/26/05 00:00 2		) Glyphosate	ND	ug/l	6	1
		) Ammonia Nitrogen	0.08	mg/l	0.05	1
10/25/05 18:35 2	. ,	) Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 18:35 2		) Nitrate as Nitrogen by IC	2.8	mg/l	0.2	2
10/25/05 18:35 2	292527 {	Nitrate as NO3 (calc)	12	mg/l	0.88	2
10/25/05 17:30 2	292617 ( 4500P-E/365.2	) Orthophosphate-P	0.040	mg/l	0.01	1
11/07/05 00:00 2	294153 ( S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.01	1
11/02/05 00:00 2	293698 ( ML/EPA 351.2	Kjeldahl Nitrogen	0.35	mg/l	0.2	1
10/25/05 15:58	( ML/SM9221B	Total Coliform Bacteria	1400	MPNM	2	1
10/25/05 16:11 2	92521 ( ML/EPA 180.1 )	Turbidity	0.50	NTU	0.05	1.
	Diazinon/C	hlorpyrifos by GCMS				
11/08/05 00:00	( EPA 625 MODSUB)		ND	ng/l	5	•
11/08/05 00:00	( EPA 625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00:00	( EPA 625 MODSUB)		ND	ng/l	5	1
11/08/05 00:00	( EPA 625 MODSUB)		ND	ng/1	10	1
11/08/05 00:00	( EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00	( EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00:00	( EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	
11/08/05 00:00		Ethoprop (Ethoprophos)	ND	ng/1	10	1
11/08/05 00:00		Fenchlorophos (Ronnel)	ND	ng/l	10	1
11/08/05 00:00	( EPA 625 MODSUB)		ND	ng/1	10	1
11/08/05 00:00	( EPA 625 MODSUB)	Fenthion	ND	ng/1	10	1
11/08/05 00:00	( EPA 625 MODSUB)	Merphos	ND	•		1
11/08/05 00:00		Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:00	( EPA 625 MODSUB)		ND	ng/l	10	1
11/08/05 00:00	( EPA 625 MODSUB)		ND	ng/l	5	1
11/08/05 00:00	( EPA 625 MODSUB)		ND	ng/l	10	1
11/08/05 00:00	( EPA 625 MODSUB)			ng/l	10	1
11/08/05 00:00		Tetrachlorovinphos (Stirophos)	ND	ng/l	10	ì
		puroforyubuop (prirobuos)	ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed	QC Ref# Metho	od	Analyte	Result	Units	MRL	Dilution
11/08/05 00:00	( EPA	625 MODSUB)	Trichloronate	ND	ng/l	10	1
SITE 1 INFLOW T	O TJ POND	2 (251	0250149) Sampled	on 10/2	5/05 13	L:45	
10/25/05 15:58	( ML/S	M9221C )	Fecal Coliform Bacteria	1.3	MPNM	2	1
10/26/05 00:00	292801 (ML/E	PA 547 )	Glyphosate	ND	ug/l	6	1
			Ammonia Nitrogen	0.09	mg/l	0.05	1
10/25/05 18:58			Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 18:58	292535 ( EPA/	MW 300.0 )	Nitrate as Nitrogen by IC	2.8	mg/l	0.2	2
	292527 (	)	Nitrate as NO3 (calc)	12	mg/l	0.88	2
10/25/05 17:30	292617 ( 4500	P-E/365.2 )	Orthophosphate-P	0.039	mg/l	0.01	1
	294153 ( S450	OPE/ 365.1)	Total phosphorus-P	0.031(M1)	mg/l	0.01	1
	293698 ( ML/E	PA 351.2 )	Kjeldahl Nitrogen	0.31	mg/l	0.2	1
10/25/05 15:58	( ML/S	M9221B )	Total Coliform Bacteria	1100	MPNM	2	1
10/25/05 16:11	292521 ( ML/E	PA 180.1 )	Turbidity	0.60	NTU	0.05	1
	Diaz	inon/C	nlorpyrifos by GCMS				
11/08/05 00:00		625 MODSUB)		ND	m = /1	P.	
11/08/05 00:00			Bolstar (Sulprofos)	ND	ng/l	5	1
11/08/05 00:00			Chlorpyrifos	ND	ng/l	10	1
11/08/05 00:00		525 MODSUB)		ND	ng/l	5	1
11/08/05 00:00	( EPA	325 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00:00		525 MODSUB)		ND	ng/l	10	1
11/08/05 00:00		325 MODSUB)		ND	ng/l	10	1
11/08/05 00:00			Ethoprop (Ethoprophos)	ND	ng/1	5	1
11/08/05 00:00			Fenchlorophos (Ronnel)	ND	ng/l	10	1
11/08/05 00:00			Pensulfothion	ND	ng/l	10	1
11/08/05 00:00		25 MODSUB)		ND	ng/l	10	1
11/08/05 00:00		25 MODSUB)		ND ND	ng/l	10	1
11/08/05 00:00			Mevinphos (Phosdrin)	ND	ng/1	10	1
11/08/05 00:00		25 MODSUB)			ng/l	10	1
11/08/05 00:00			Parathion-methyl	ND ND	ng/l	5	1
11/08/05 00:00		25 MODSUB)			ng/l	10	1
11/08/05 00:00		25 MODSUB)		ND	ng/l	10	1
11/08/05 00:00			Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
11/08/05 00:00			Trichloronate	ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed	QC Ref# Meth	od	Analyte	Result	Units	MRL	Dilution
SITE 2 OUTFL	OW FRM TJ P	OUND 1	(2510250150)	Sampled on	10/25/0	5 12:	30
10/25/05 1	,,	SM9221C )	Fecal Coliform Bacteria	50	MPNM	2	1
10/26/05 00	,,		Glyphosate	ND	ug/l	6	1
11/09/05 00	, , , , , , , , , , , , , , , , , , , ,		Ammonia Nitrogen	0.09	mg/l	0.05	1
10/25/05 19	, , , , , , , , , , , , , , , , , , ,		Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
10/25/05 19		/MW 300.0 )	Nitrate as Nitrogen by IC	2.9	mg/l	0.2	2
10/25/05 19	,		Nitrate as NO3 (calc)	13	mg/1	0.88	2
10/25/05 17			Orthophosphate-P	0.040	mg/l	0.01	1
11/07/05 00			Total phosphorus-P	ND	mg/l	0.01	1
11/02/05 00	:00 293698 (ML/)	EPA 351.2 )	Kjeldahl Nitrogen	0.30	mg/l	0.2	1
10/25/05 15	:58 ( ML/:	SM9221B )	Total Coliform Bactería	3000	MPNM	2	1
10/25/05 16	:11 292521 (ML/)	EPA 180.1 )	Turbidity	0.65	ntu	0.05	ı
	Dia:	zinon/Cl	hlorpyrifos by GC	'MS			
11/08/05 00		625 MODSUB)		ND	ng/l	5	1
11/08/05 00	:00 ( EPA	625 MODSUB)	Bolstar (Sulprofos)	ND	ng/l	10	1
11/08/05 00			Chlorpyrifos	ND	ng/l	5	1
11/08/05 00	:00 ( EPA	625 MODSUB)	Demeton	ND	ng/1	10	1
11/08/05 00	:00 ( EPA	625 MODSUB)	Dichlorvos	ND	ng/l	10	1
11/08/05 00	00 ( EPA	625 MODSUB)	Disulfoton	ND	ng/l	10	1
11/08/05 00	00 ( EPA	625 MODSUB)	Dimethoate	ND	ng/l	5	1
11/08/05 00	00 ( EPA	625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
11/08/05 00	00 ( EPA	625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
11/08/05 00	00 ( EPA	625 MODSUB)	Fensulfothion	ND	ng/l	10	1
11/08/05 00	00 ( EPA	625 MODSUB)	Fenthion	ND	ng/l	10	1
11/08/05 00:	00 ( EPA	625 MODSUB)	Merphos	ND	nq/l	1.0	1
11/08/05 00:	00 ( EPA	625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
11/08/05 00:	00 ( EPA	625 MODSUB)	Malathion	ND	ng/l	5	1
11/08/05 00:	00 ( EPA	625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
11/08/05 00:	00 ( EPA	625 MODSUB)	Phorate	ND	ng/l	10	1
11/08/05 00:	00 (EPA	625 MODSUB)	Tokuthion	ND	ng/l	10	1
11/08/05 00:	00 ( EPA (	625 MODSUB)	Tetrachlorovinphos (Stiropho	os) ND	ng/l	10	1
11/08/05 00:							+



Applied Research Dept, MWH (Darren Giles) (continued)

SITE   2 OUTFLOW FRM TJ POUND 2 (2510250151)   Sampled on 10/25/05 12:40	Prepared Analyz	zed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
10/25/05   15:58   ( ML/SPA 547 )   Pecal Coliform Bacteria   50   MPNM   2   1   11/05/05   00:00   292401   ( ML/SPA 547 )   Glyphosate   MD   ug/1   6   1   11/05/05   1   11/05/05   10:00   292401   ( ML/SPA 350.1 )   Ammonia Mitrogen   0.09   mg/1   0.05   1   10/25/05   19:22   292532   ( ML/SPA 300.0 )   Mitrate as Nitrogen by IC   ND   mg/1   0.2   2   10/25/05   19:22   292535   ( EPA/MW 300.0 )   Mitrate as NO3 (calc)   13   mg/1   0.68   2   10/25/05   19:22   292537   ( ) Mitrate as NO3 (calc)   13   mg/1   0.01   1   11/07/05   00:00   294153   ( 4500PE /365.2 ) Orthophosphate-P   MD   mg/1   0.01   1   11/02/05   10:00   294153   ( 4500PE /365.2 ) Orthophosphate-P   MD   mg/1   0.01   1   11/02/05   15:58   ( ML/SPA 351.2 )   Mitrate as NO3 (calc)   13   mg/1   0.05   1   11/02/5/05   15:58   ( ML/SPA 351.2 )   Mitrate as NO3 (calc)   13   mg/1   0.05   1   11/05/05   15:58   ( ML/SPA 351.2 )   Mitrate as NO3 (calc)   13   mg/1   0.01   1   1   1   1   1   1   1   1   1	SITE 2 OUT	rflow	FRM To	J POUND 2	(2510250151)	Sampled on	10/25/05	12:40	~~~
11/09/05 00:00   293408   KML/EPA 350.1   Ammonia Mitrogen	10/25/	05 15:58		( ML/SM9221C	) Fecal Coliform Bacteria	50	•		1
11/09/05 00:00 294348 (ML/EPA 300.1 ) Ammonia Mitrogen by IC ND mg/l 0.2 2 2 10/25/05 19:22 292532 (ML/EPA 300.0 ) Nitrate as Nitrogen by IC 2.9 mg/l 0.2 2 2 10/25/05 19:22 292537 ( ) Nitrate as Nitrogen by IC 2.9 mg/l 0.2 2 2 10/25/05 19:22 292537 ( ) Nitrate as Nitrogen by IC 2.9 mg/l 0.2 2 2 11/25/05 19:22 292537 ( ) Nitrate as Nitrogen by IC 2.9 mg/l 0.2 2 2 11/25/05 19:22 292537 ( ) Nitrate as Nitrogen by IC 2.9 mg/l 0.2 2 2 11/25/05 19:32 292617 (4500P-E/365.2) Orthophosphate-P 0.040 mg/l 0.01 1 11/07/05 00:00 294153 (S4500PE) 65:1) Total Phosphorus-P NID mg/l 0.01 1 11/07/05 00:00 294153 (S4500PE) 65:1) Total Phosphorus-P NID mg/l 0.01 1 11/07/05 00:00 294153 (S4500PE) 65:1) Total Coliform Bacteria 500 MPANN 2 1 10/25/05 15:58 (ML/SMS9221B ) Total Coliform Bacteria 500 MPANN 2 1 10/25/05 16:11 292521 (ML/EPA 180.1 ) Turbidity 0.70 NTU 0.05 1 1 11/08/05 00:00 ( EPA 625 MODSUB) Diazinon NID mg/l 5 1 11/08/05 00:00 ( EPA 625 MODSUB) Diazinon NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Diazinon NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dieneton NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dieneton NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dieneton NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dieneton NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dieneton NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dieneton NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Pensulfothon NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Pensulfothon NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Pensulfothon NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merthphos (Ronnel) NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merthphos (Ponsdrin) NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merthphos (Ponsdrin) NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merthphos (Ponsdrin) NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merthphos (Phosdrin) NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merthphos (Phosdrin) NID mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merthphos (Phosdrin) NID mg/l 10 1 11/08/05 00:00 ( EPA 625 M				( ML/EPA 547	) Glyphosate	ND	ug/l	6	
10/28/05 19:22 293532 ( ML/EPA 300.0 ) Nitrate as Nitrogen by IC ND mg/l 0.2 2 10/28/05 19:22 293535 ( EPA/NW 300.0 ) Nitrate as Nitrogen by IC 2.9 mg/l 0.2 2 10/25/05 19:22 293535 ( EPA/NW 300.0 ) Nitrate as NO3 (calc) 13 mg/l 0.88 2 10/25/05 19:30 292617 ( 4500P-E/365.2 ) Orthophosphate-P 0.040 mg/l 0.01 1 11/07/05 00:00 294153 ( S4500FE/ 365.1) Total phosphorus-P ND mg/l 0.01 1 11/02/05 00:00 293698 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.28 mg/l 0.2 1 10/25/05 15:58 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.28 mg/l 0.2 1 10/25/05 15:58 ( ML/EPA 180.1 ) Turbidity 0.70 NTU 0.05 1 1 10/25/05 16:11 293521 ( ML/EPA 180.1 ) Turbidity 0.70 NTU 0.05 1 1 11/08/05 00:00 ( EPA 625 MODSUB) Diazinon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Boletar (Sulprofos) ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Chloryprifos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Diaulforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Diaulforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Elaulforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Biculforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Elaulforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Elaulforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Elaulforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Elaulforon ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Totathion-methyl ND mg/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Totathion-methyl ND mg/l	11/09/	05 00:00	294348	( ML/EPA 350.1	) Ammonia Nitrogen	0.09	mg/l	0.05	
10/25/05 19:22 292527 ( ) Nitrate as No.3 (calc) 13 mg/1 0.2 2 10/25/05 17:30 292517 ( 4500P-E/365.2 ) Orthophosphate-P 0.040 mg/1 0.01 1 11/07/05 00:00 294153 ( 84500PE/365.1 ) Total phosphorus-P ND mg/1 0.01 1 11/02/05 00:00 293698 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.28 mg/1 0.2 1 10/25/05 15:58 ( ML/SM922IB ) Total Coliform Bacteria 500 MPNM 2 1 10/25/05 16:11 292521 ( ML/EPA 180.1 ) Turbidity 0.70 NTU 0.05 1  Diazinon/Chlorpyrifos by GCMS  11/08/05 00:00 ( EPA 625 MODSUB) Diazinon ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dimethoate ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dimethoate ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dimethoate ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Penchlorophos (Ronnel) ND ng/1 10 1 11/08/05 00:00 ( EPA 625				( ML/EPA 300.0	) Nitrite, Nitrogen by IC	ND	mg/l		
10/25/05 17:30   292617   (4500P-E/365.2) Orthophosphate-P				( EPA/MW 300.0	) Nitrate as Nitrogen by I	C 2.9	mg/1	0.2	2
11/07/05 00:00   294153   ( \$4500PW						13	mg/l	0.88	2
11/02/05 00:00 293698 ( ML/EPA 351.2 ) Kjeldahl Nitrogen				( 4500P-E/365.2	) Orthophosphate-P	0.040	mg/l	0.01	1
10/25/05 15:58						ир	mg/l	0.01	1
10/25/05 16:11 292521			293698	( ML/EPA 351.2	) Kjeldahl Nitrogen	0.28	mg/l	0.2	1
Diazinon/Chlorpyrifos by GCMS				( ML/SM9221B	) Total Coliform Bacteria	500	MPNM	2	1
11/08/05 00:00 ( EPA 625 MODSUB) Diazinon ND ng/l 5 1 11/08/05 00:00 ( EPA 625 MODSUB) Bolstar (Sulprofos) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND ng/l 5 1 11/08/05 00:00 ( EPA 625 MODSUB) Demeton ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Disulfoton ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Dimethoate ND ng/l 5 1 11/08/05 00:00 ( EPA 625 MODSUB) Ethoprop (Ethoprophos) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos (Phosdrin) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Merphos (Phosdrin) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Tokuthion ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 10 1 11/08/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 10 1	10/25/0	05 16:11	292521	( ML/EPA 180.1	) Turbidity	0.70	NTU	0.05	1
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11/08/05 00:00 (EPA 625 MODSUB) Merphos ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Mevinphos (Phosdrin) ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Malathion ND ng/1 5 1 11/08/05 00:00 (EPA 625 MODSUB) Parathion-methyl ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Phorate ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tokuthion ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/0	5 00:00		( EPA 625 MODSUB	) Fenthion	ND	_		_
11/08/05 00:00 (EPA 625 MODSUB) Mevinphos (Phosdrin) ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Malathion ND ng/1 5 1 11/08/05 00:00 (EPA 625 MODSUB) Parathion-methyl ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Phorate ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tokuthion ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/0	5 00:00		( EPA 625 MODSUB	) Merphos	ND			_
11/08/05 00:00 (EPA 625 MODSUB) Malathion ND ng/l 5 1 11/08/05 00:00 (EPA 625 MODSUB) Parathion-methyl ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Phorate ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tokuthion ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/0	5 00:00		( EPA 625 MODSUB	) Mevinphos (Phosdrin)	ND	-		
11/08/05 00:00 (EPA 625 MODSUB) Parathion methyl ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Phorate ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tokuthion ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/0	5 00:00		( EPA 625 MODSUB	) Malathion	ND	-		
11/08/05 00:00 (EPA 625 MODSUB) Phorate ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tokuthion ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 10 1 11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/0	5 00:00		( EPA 625 MODSUB	) Parathion-methyl	ND	•	•	-
11/08/05 00:00 (EPA 625 MODSUB) Tokuthion ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/0	5 00:00		( EPA 625 MODSUB	) Phorate		-		_
11/08/05 00:00 (EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/1 10 1 11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/09	5 00:00		( EPA 625 MODSUB)	Tokuthion				_
11/08/05 00:00 (EPA 625 MODSUB) Trichloropate	11/08/0	5 00:00	:	( EPA 625 MODSUB)	Tetrachlorovinphos (Stirop				_
	11/08/09	5 00:00					-		



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE 3	B BIG TJ W	ASH 1	(25102501	.52) Sampled o	on 10/25/05	13:20		
	10/25/05 15:58		( ML/SM9221C	) Fecal Coliform Bacteria	17	MPNM	2	1
	10/26/05 00:00	292801	( ML/EPA 547	) Glyphosate	ND	ug/l	6	1
	11/09/05 00:00	294348	( ML/EPA 350.1	) Ammonia Nitrogen	ND	mg/l	0.05	1
	10/25/05 19:33	292532	( ML/EPA 300.0	) Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	10/25/05 19:33	292535	( EPA/MW 300.0	) Nitrate as Nitrogen by IC	ND ND	mg/l	0.2	2
	10/25/05 19:33	292527	(	) Nitrate as NO3 (calc)	ND	mg/l	0.88	2
	10/25/05 17:30	292617	( 4500P-E/365.2	) Orthophosphate-P	ND	mg/l	0.01	1
	11/07/05 00:00	294153	( S4500PE/ 365.	1) Total phosphorus-P	ND	mg/l	0.02	2
	11/02/05 00:00	293698	( ML/EPA 351.2	) Kjeldahl Nitrogen	0.24	mg/l	0.2	1
	10/25/05 15:58		( ML/SM9221B	) Total Coliform Bacteria	700	MPNM	2	1
	10/25/05 16:11	292521	( ML/EPA 180.1	) Turbidity	3.5	ntu	0.05	1
			Diazinon/	Chlorpyrifos by G	CMS			
	11/08/05 00:00		( EPA 625 MODSU	· · · · ·	ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSU	B) Bolstar (Sulprofos)	ND	ng/1	10	1
	11/08/05 00:00		( EPA 625 MODSU	B) Chlorpyrifos	ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSU	B) Demeton	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	B) Dichlorvos	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	B) Disulfoton	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	B) Dimethoate	ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSU	B) Ethoprop (Ethoprophos)	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUI	B) Fenchlorophos (Ronnel)	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	3) Fensulfothion	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUI	3) Fenthion	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	3) Merphos	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE	3) Mevinphos (Phosdrin)	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE	3) Malathion	ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSUE	3) Parathion-methyl	ИД	ng/l	10	1
;	11/08/05 00:00		( BPA 625 MODSUE	B) Phorate	ND	ng/l	10	1
:	11/08/05 00:00		( EPA 625 MODSUE	3) Tokuthion	МД	ng/l	10	1
:	11/08/05 00:00		( EPA 625 MODSUE	B) Tetrachlorovinphos (Stirop	ohos) ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE		ND	ng/1	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SITE 3	BIG TJ W	ASH 2	(2510250	153) Sampled	on 10/25/05 1	3:30		······································
	10/25/05 15:58		( ML/SM9221C	) Fecal Coliform Bacteria	13	MPNM	2	1
	10/27/05 00:00	292805	( ML/EPA 547	) Glyphosate	ND	ug/l	6	1
	11/09/05 00:00	294348	( ML/EPA 350.1	) Ammonía Nitrogen	ND	mg/l	0.05	1
	10/25/05 19:45	292532	( ML/EPA 300.0	) Nitrite, Nitrogen by IC	ND	mg/1	0.2	2
	10/25/05 19:45	292535	( EPA/MW 300.0	) Nitrate as Nitrogen by I	C ND	mg/l	0.2	2
	10/25/05 19:45	292527	(	) Nitrate as NO3 (calc)	ND	mg/l	0.88	2
	10/25/05 17:30	292617	( 4500P-E/365.	2 ) Orthophosphate-P	ND	mg/l	0.01	1
	11/07/05 00:00		( S4500PE/ 365	.l) Total phosphorus-P	ND	mg/l	0.02	2
	11/02/05 00:00	293698	( ML/EPA 351.2	) Kjeldahl Nitrogen	0.24	mg/l	0.2	1
	10/25/05 15:58		( ML/SM9221B	) Total Coliform Bacteria	1600	MPNM	2	1
	10/25/05 16:11	292521	( ML/EPA 180.1	) Turbidity	3.6	NTU	0.05	1
			Diazinon/	Chlorpyrifos by (	3CMS			
	11/08/05 00:00		( EPA 625 MODSU		ND	ng/l	5	
	11/08/05 00:00		( EPA 625 MODSU	JB) Bolstar (Sulprofos)	ND	ng/l	10	1
	11/08/05 00:00			JB) Chlorpyrifos	ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSU		ND	ng/1	10	1
	11/08/05 00:00		( EPA 625 MODSU	JB) Dichlorvos	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	B) Disulfoton	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	B) Dimethoate	ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSU	B) Ethoprop (Ethoprophos)	ND	ng/1	10	1
	11/08/05 00:00			B) Fenchlorophos (Ronnel)	ND	ng/1	10	1
	11/08/05 00:00			B) Fensulfothion	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSU	B) Fenthion	ND	ng/l	10	1
;	11/08/05 00:00		( EPA 625 MODSU	B) Merphos	ND	ng/l	10	1
:	11/08/05 00:00		( EPA 625 MODSU	B) Mevinphos (Phosdrin)	ND	ng/l	10	1
:	11/08/05 00:00		( EPA 625 MODSU	B) Malathion	ND	ng/1	5	1
1	11/08/05 00:00		( EPA 625 MODSUI	B) Parathion-methyl	ND	ng/l	10	1
1	11/08/05 00:00		( EPA 625 MODSU		ND	ng/1	10	1
1	11/08/05 00:00		( EPA 625 MODSUI	3) Tokuthion	ND	ng/l	10	1
3	11/08/05 00:00		( EPA 625 MODSU	3) Tetrachlorovinphos (Stirop		ng/l	10	1
1	1/08/05 00:00			3) Trichloronate	ND	ng/1	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte		Result	Units	MRL	Dilution
SITE	4 HAINES C	ANYON	CREEK 1 (	2510250154)	Sampled	on	10/25/05	10:00	
	10/25/05 15:58		( ML/SM9221C	) Fecal Coliform Bactería		80	MPNM	2	1
	10/27/05 00:00	292805	( ML/EPA 547	) Glyphosate		ND	ug/l	6	1
	11/09/05 00:00	294348		) Ammonia Nitrogen		ND	mg/l	0.05	1
	10/25/05 21:41			) Nitrite, Nitrogen by IC		ND	mg/1	0.2	2
	10/25/05 21:41		( EPA/MW 300.0	) Nitrate as Nitrogen by	IC	2.8	mg/l	0.2	2
	10/25/05 21:41		(	) Nitrate as NO3 (calc)		12	mg/l	0.88	2
	10/25/05 17:30	292617	( 4500P-E/365.2	) Orthophosphate-P		0.044	mg/l	0.01	1
	11/07/05 00:00	294153		1) Total phosphorus-P		ND	mg/l	0.01	1
	11/02/05 00:00	293698	( ML/EPA 351.2	) Kjeldahl Nitrogen		0.34	mg/1	0.2	1
	10/25/05 15:58		( ML/SM9221B	) Total Coliform Bacteria		1600	MPNM	2	l
	10/25/05 16:11	292521	( ML/EPA 180.1	) Turbidity		1.7	ntu	0.05	1
			Diazinon/	Chlorpyrifos by	GCMS				
	11/08/05 00:00		( EPA 625 MODSUI			ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSU	3) Bolstar (Sulprofos)		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUI	3) Chlorpyrifos		ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSUE	3) Demeton		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE	3) Dichlorvos		ND	nq/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE	B) Disulfoton		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE	3) Dimethoate		ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSUE	B) Ethoprop (Ethoprophos)		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE	Fenchlorophos (Ronnel)		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUE	) Fensulfothion		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB	) Fenthion		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB	) Merphos		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB	) Mevinphos (Phosdrin)		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB	) Malathion		ND	ng/l	5	1
	11/08/05 00:00		( EPA 625 MODSUB	) Parathion-methyl		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB	) Phorate		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB	) Tokuthion		ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB	) Tetrachlorovinphos (Stire	ophos)	ND	ng/l	10	1
	11/08/05 00:00		( EPA 625 MODSUB			ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed	QC Ref#	Method	Analyte		Result	Units	MRL	Dilution
SITE 4 HAINES	CANYON	CREEK 2	(2510250155)	Sampled	on	10/25/05	10:15	
10/25/05 15:58		( ML/SM9221C	) Fecal Coliform Bacteri	La	130	MPNM	2	1
10/27/05 00:00		( ML/EPA 547	) Glyphosate		ND	ug/l	6	1
11/09/05 00:00			.1 ) Ammonia Nitrogen		ND	mg/l	0.05	1
10/25/05 19:56			0 ) Nitrite, Nitrogen by 3		ND	mg/1	0.2	2
10/25/05 19:56		( EPA/MW 300.	0 ) Nitrate as Nitrogen by	r IC	2.8	mg/l	0.2	2
10/25/05 19:56		(	) Nitrate as NO3 (calc)		12	mg/l	0.88	2
10/25/05 17:30		( 4500P-E/365	i.2 ) Orthophosphate-P		0.042	mg/l	0.01	1
11/07/05 00:00	294153		5.1) Total phosphorus-P		ND	mg/l	0.01	1
11/02/05 00:00	293698	( ML/EPA 351.	2 ) Kjeldahl Nitrogen		0.27	mg/1	0.2	1
10/25/05 15:58		( ML/SM9221B	) Total Coliform Bacteri	a	2200	MPNM	2	1
10/25/05 16:11	292521	( ML/EPA 180.	1 ) Turbidity		0.50	NTU	0.05	ı
		Diazinon	/Chlorpyrifos by	GCMS				
11/08/05 00:00			SUB) Diazinon		ND	ng/l	5	1.
11/08/05 00:00		( EPA 625 MOD	SUB) Bolstar (Sulprofos)		ND	nq/l	10	1
11/08/05 00:00		( EPA 625 MOD	SUB) Chlorpyrifos		ND	ng/l	5	1
11/08/05 00:00		( EPA 625 MOD	SUB) Demeton		ND	ng/l	10	1
11/08/05 00:00		( BPA 625 MOD	SUB) Dichlorvos		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MOD	SUB) Disulfoton		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MOD	SUB) Dimethoate		ND	ng/l	5	1
11/08/05 00:00		( BPA 625 MOD	SUB) Ethoprop (Ethoprophos)		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MOD	SUB) Fenchlorophos (Ronnel)		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MOD	SUB) Fensulfothion		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MOD:	SUB) Fenthion		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MOD	SUB) Merphos		ND	ng/l	1.0	1
11/08/05 00:00		( EPA 625 MODS	SUB) Mevinphos (Phosdrin)		ND	ng/l	1.0	1
11/08/05 00:00		( EPA 625 MODS	SUB) Malathion		ND	ng/l	5	1
11/08/05 00:00		( EPA 625 MODS	SUB) Parathion-methyl		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MODS	SUB) Phorate		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MODS	SUB) Tokuthion		ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MODS	NJB) Tetrachlorovinphos (Sti	rophos)	ND	ng/l	10	1
11/08/05 00:00		( EPA 625 MODS	UB) Trichloronate		ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles)

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QC	Ref		- Turbidit	<del></del>		Analysis	Date:	10/25	/2005
		25102 25102 25102 25102 25102 25102 25102	250143 250149 250150 250151 250152 250153 50154 50155	SITE 1 SITE 2 SITE 2 SITE 3 SITE 3 SITE 4 SITE 4	INFLOW TO INFLOW TO OUTFLOW OUTFLOW DEED TO WE BIG TO WE HAINES CENTRAL HAINES CENTRAL TO THE PROPERTY OF THE	O TJ POND Ar O TJ POND Ar FRM TJ POUAR ASH 1 AR ASH 2 AR ANYON CREEAR	nalyzed nalyzed nalyzed nalyzed nalyzed nalyzed nalyzed	by:	sar sar sar sar sar sar
QC	Ref	#292527	- Nitrate	as NO3 (cal	lc)	Analysis	Date:	10/25/	/2005
		25102 25102 25102 25102 25102 25102 25102	50143 50149 50150 50151 50152 50153 50155	SITE 1 SITE 2 SITE 2 SITE 3 SITE 3 SITE 4	INFLOW TO INFLOW TO OUTFLOW E BIG TJ WA BIG TJ WA HAINES CA	O TJ POND An O TJ POND An FRM TJ POAn FRM TJ POUAn ASH 1 An ASH 2 An ANYON CREEAn	alyzed alyzed alyzed alyzed alyzed alyzed alyzed	by: g by: g by: g by: g by: g	jdt jdt jdt jdt jdt jdt
QC	Ref	#292528	- Nitrate	as NO3 (cal	.c)	Analysis	Date: :	10/25/	2005
		25102	50154	SITE 4	HAINES CA	NYON CREEAn	alyzed	by: g	dt
QC	Ref	#292532	- Nitrite,	Nitrogen b	y IC	Analysis 1	Date: ]	L0/25/	2005
		251025	50143 50149 50150 50151 50152 50153	SITE 2 SITE 2 SITE 3 SITE 3	INFLOW TO OUTFLOW OUTFLOW F BIG TJ WA BIG TJ WA	TJ POND And TJ POND And FRM TJ POAnd TM TJ POUAnd SH 1 And SH 2 And NYON CREEAnd	alyzed alyzed alyzed alyzed	by: g by: g by: g	dt dt dt dt



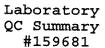
Applied Research Dept, MWH (Darren Giles) (continued)

QC Ref #292533 - Nitrite, Nitrogen by IC Analysis Date: 10/25/2005 2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: gdt QC Ref #292535 - Nitrate as Nitrogen by IC Analysis Date: 10/25/2005 2510250143 SITE 1 INFLOW TO TJ POND Analyzed by: gdt 2510250149 SITE 1 INFLOW TO TJ POND Analyzed by: gdt 2510250150 SITE 2 OUTFLOW FRM TJ POAnalyzed by: gdt 2510250151 SITE 2 OUTFLOW FRM TJ POUAnalyzed by: qdt 2510250152 SITE 3 BIG TJ WASH 1 SITE 3 BIG TJ WASH 2 Analyzed by: gdt 2510250153 Analyzed by: gdt SITE 4 HAINES CANYON CREEAnalyzed by: gdt 2510250155 QC Ref #292536 - Nitrate as Nitrogen by IC Analysis Date: 10/25/2005 2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: qdt QC Ref #292617 - Orthophosphate-P Analysis Date: 10/25/2005 2510250143 SITE 1 INFLOW TO TJ POND Analyzed by: dis SITE 1 INFLOW TO TJ POND Analyzed by: dis 2510250149 2510250149
2510250150
SITE 1 INFLOW 10 10 FOND Analyzed by: dis
2510250151
SITE 2 OUTFLOW FRM TJ POUAnalyzed by: dis
2510250152
SITE 3 BIG TJ WASH 1 Analyzed by: dis
2510250153
SITE 3 BIG TJ WASH 2 Analyzed by: dis
2510250154
SITE 4 HAINES CANYON CREEAnalyzed by: dis
2510250155
SITE 4 HAINES CANYON CREEAnalyzed by: dis QC Ref #292801 - Glyphosate Analysis Date: 10/26/2005 2510250143 SITE 1 INFLOW TO TJ POND Analyzed by: phk 2510250149 SITE 1 INFLOW TO TJ POND Analyzed by: phk 2510250150 SITE 2 OUTFLOW FRM TJ POAnalyzed by: phk 2510250151 SITE 2 OUTFLOW FRM TJ POUAnalyzed by: phk 2510250152 SITE 3 BIG TJ WASH 1 Analyzed by: phk



Applied Research Dept, MWH (Darren Giles) (continued)

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QC Ref #292805 - Glyphosate
                                                                  Analysis Date: 10/27/2005
              2510250153 SITE 3 BIG TJ WASH 2 Analyzed by: phk
2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: phk
2510250155 SITE 4 HAINES CANYON CREEAnalyzed by: phk
QC Ref #293698 - Kjeldahl Nitrogen
                                                                  Analysis Date: 11/02/2005
              2510250143
                                         SITE 1 INFLOW TO TJ POND Analyzed by: bxr
              2510250149
                                         SITE 1 INFLOW TO TJ POND Analyzed by: bxr
              2510250150
                                        SITE 2 OUTFLOW FRM TJ POAnalyzed by: bxr
                                        SITE 2 OUTFLOW FRM TJ POUAnalyzed by: bxr
              2510250151
              2510250152
                                       SITE 3 BIG TJ WASH 1
                                                                          Analyzed by: bxr
              2510250153
                                       SITE 3 BIG TJ WASH 2
                                                                           Analyzed by: bxr
              2510250154
                                       SITE 4 HAINES CANYON CREEAnalyzed by: bxr
                                       SITE 4 HAINES CANYON CREEAnalyzed by: bxr
              2510250155
QC Ref #294153 - Total phosphorus-P
                                                                 Analysis Date: 11/07/2005
              2510250143
                                         SITE 1 INFLOW TO TJ POND Analyzed by: bxr
              2510250149
                                         SITE 1 INFLOW TO TJ POND Analyzed by: bxr
                                       SITE 2 OUTFLOW FRM TJ POAnalyzed by: bxr
              2510250150
             2510250151 SITE 2 OUTFLOW FRM TJ POUAnalyzed by: bxr
2510250152 SITE 3 BIG TJ WASH 1 Analyzed by: bxr
2510250153 SITE 3 BIG TJ WASH 2 Analyzed by: bxr
2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: bxr
2510250155 SITE 4 HAINES CANYON CREEAnalyzed by: bxr
QC Ref #294348 - Ammonia Nitrogen
                                                                 Analysis Date: 11/09/2005
             2510250143
                                        SITE 1 INFLOW TO TJ POND Analyzed by: clv
                                        SITE 1 INFLOW TO TJ POND Analyzed by: clv
             2510250149
                                     SITE 2 OUTFLOW FRM TJ POUAnalyzed by: clv SITE 2 OUTFLOW FRM TJ POUAnalyzed by: clv SITE 3 BIG TJ WASH 1 Analyzed by: clv
             2510250150
             2510250151
             2510250152
             2510250153 SITE 3 BIG TJ WASH 2 Analyzed by: clv
2510250154 SITE 4 HAINES CANYON CREEAnalyzed by: clv
2510250155 SITE 4 HAINES CANYON CREEAnalyzed by: clv
```





Applied Research Dept, MWH (Darren Giles) (continued)



Applied Research Dept, MWH (Darren Giles)

QC Re	#292521	Turbidit	Y					
MLT CHK	Analyte Turbidity Turbidity		Spiked 0.15 0.0500	Recovered 0.15 0.048	Units NTU NTU	Yield (%)	Limits (%) ( 0-20 ) ( 50-150 )	RPD (%)
QC Re	#292532	Nitrite,	Nitro	gen by	IC			
QC AASPKSMP LCS1 LCS2 MBLK MS MSD	Analyte Spiked sample Nitrite, Nitrogen by	IC IC	Spiked Lab # 25 1.0 1.0 ND 1.0	Recovered 10250296 1.08 1.07 <0.1 1.06	Units MGL MGL MGL MGL MGL MGL MGL	Yield (%)  108.0  107.0  106.0  106.0	Limits (%) ( 0-0 ) ( 90-110 ) ( 90-110 ) ( 90-110 )	RPD (%)
QC Rei	#494533	Nitrite,	NITTO	gen by	TC			
QC AASPKSMP LCS1 LCS2 MBLK MS	Analyte Spiked sample Nitrite, Nitrogen by Nitrite, Nitrogen by Nitrite, Nitrogen by Nitrite, Nitrogen by	ic	Spiked Lab # 25 1.0 1.0 ND	Recovered 10250154 1.08 1.06 <0.1	Units MGL MGL MGL MGL MGL	Yield (%) 108.0 106.0	Limits (%) ( 0-0 ) ( 90-110 ) ( 90-110 )	RPD (%)
MSD	Nitrite, Nitrogen by		1.0	1.41	MGL	141.0	( 90-110 )	21
			1.0	1.41	MGL			21



Applied Research Dept, MWH (Darren Giles) (continued)

MBLK	Nitrate as Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.33	MGL	93.2	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	2.5	2.31	MGL	92.4	( 90-110 )	0.86
			_				
QC Rei	#292536 Nitrate	as Ni	trogen k	y IC			
QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10250154	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.65	MGL	106.0	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.62	MGL	104.8	( 90-110 )	1.1
MBLK	Nitrate as Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrate as Nitrogen by IC	2.5	2.5	MGL	100.0	( 90~110 )	
MSD	Nitrate as Nitrogen by IC	2 - 5	2.49	MGL	99.6	( 90-110 )	0.40
OC Ref	#292617 Orthoph	oenhate	a _ D				
20		obpilace					
QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
QC MS	Analyte Spiked sample	Spiked Lab # 25	Recovered	Units MGL	Yield (%)	Limits (%)	RPD (%)
_	•	-			Yield (%)		RPD (%)
MS	Spiked sample	Lab # 25	10250301	MGL		( 0-0 )	RPD (%)
MS LCS1	Spiked sample Orthophosphate-P	Lab # 25	10250301	mgl mgl	103.6	( 0-0 ) ( 90-110 )	
MS LCS1 LCS2	Spiked sample Orthophosphate-P Orthophosphate-P	Lab # 25 0.5 0.5	10250301 0.518 0.514	mgl mgl mgl	103.6	( 0-0 ) ( 90-110 )	
MS LCS1 LCS2 MBLK	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P	Lab # 25 0.5 0.5 ND	10250301 0.518 0.514 <0.01	MGL MGL MGL	103.6	( 0-0 ) ( 90-110 ) ( 90-110 )	
MS LCS1 LCS2 MBLK MRL_CHK	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P	Lab # 25 0.5 0.5 ND 0.010	10250301 0.518 0.514 <0.01 0.012	MGL MGL MGL MGL	103.6 102.8 120.0	( 0-0 ) ( 90-110 ) ( 90-110 )	
MS LCS1 LCS2 MBLK MRL_CHK MS	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P	Lab # 25 0.5 0.5 ND 0.010	10250301 0.518 0.514 <0.01 0.012	MGL MGL MGL MGL MGL	103.6 102.8 120.0 100.8	( 0-0 ) ( 90-110 ) ( 90-110 ) ( 50-150 ) ( 80-120 )	0.78
MS LCS1 LCS2 MBLK MRL_CHK MS	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P	Lab # 25 0.5 0.5 ND 0.010 0.5	10250301 0.518 0.514 <0.01 0.012	MGL MGL MGL MGL MGL	103.6 102.8 120.0 100.8	( 0-0 ) ( 90-110 ) ( 90-110 ) ( 50-150 ) ( 80-120 )	0.78
MS LCS1 LCS2 MBLK MRL_CHK MS	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P	Lab # 25 0.5 0.5 ND 0.010 0.5	10250301 0.518 0.514 <0.01 0.012	MGL MGL MGL MGL MGL	103.6 102.8 120.0 100.8	( 0-0 ) ( 90-110 ) ( 90-110 ) ( 50-150 ) ( 80-120 )	0.78
MS LCS1 LCS2 MBLK MRL_CHK MS	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P	Lab # 25 0.5 0.5 ND 0.010 0.5	10250301 0.518 0.514 <0.01 0.012	MGL MGL MGL MGL MGL	103.6 102.8 120.0 100.8	( 0-0 ) ( 90-110 ) ( 90-110 ) ( 50-150 ) ( 80-120 )	0.78
MS LCS1 LCS2 MBLK MRL_CHK MS MSD	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P #292801 Glyphose	Lab # 25 0.5 0.5 ND 0.010 0.5 0.5	10250301 0.518 0.514 <0.01 0.012 0.504 0.501	MGL MGL MGL MGL MGL MGL	103.6 102.8 120.0 100.8 100.2	( 0-0 ) ( 90-110 ) ( 90-110 ) ( 50-150 ) ( 80-120 ) ( 80-120 )	0.78
MS LCS1 LCS2 MBLK MRL_CHK MS MSD  QC Ref	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Analyte	Lab # 25 0.5 0.5 ND 0.010 0.5 0.5	10250301 0.518 0.514 <0.01 0.012 0.504 0.501	MGL MGL MGL MGL MGL MGL MGL MGL MGL	103.6 102.8 120.0 100.8 100.2	( 0-0 ) ( 90-110 ) ( 90-110 ) ( 50-150 ) ( 80-120 ) ( 80-120 )	0.78
MS LCS1 LCS2 MBLK MRL_CHK MS MSD  QC Ref	Spiked sample Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Orthophosphate-P Analyte Spiked sample	Lab # 25 0.5 0.5 ND 0.010 0.5 0.5	10250301 0.518 0.514 <0.01 0.012 0.504 0.501 Recovered 10240019	MGL MGL MGL MGL MGL MGL MGL Units	103.6 102.8 120.0 100.8 100.2	( 0-0 ) ( 90-110 ) ( 90-110 ) ( 50-150 ) ( 80-120 ) ( 80-120 )	0.78



Applied Research Dept, MWH (Darren Giles) (continued)

MS	Glyphosate		10	10.3	UGL	103.0	( 82-115 )	
MSD	Glyphosate		10	10.5	UGL	105.0	( 82-115 )	1.9
QC Ref	#292805	Glyphosa	ate					
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	10250153	UGL	11614 (0)	( 0-0 )	1/4 1/2)
LCS1	Glyphosate		10	10.7	UGL	107.0	( 82-115 )	
MBLK	Glyphosate		ND	<6	UGL	20710	( 02 110 )	
MRL CHK	Glyphosate		6.00	5.20	UGL	86.7	(50-150)	
MS	Glyphosate		10	10.2	UGL	102.0	(82-115)	
MSD	Glyphosate		10	10.1	UGL	101.0	( 82-115 )	0.99
							, ,	0.00
QC Ref	#293698	Kjeldahl	. Nitro	gen				
oc	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	10250635	MGL	irera (4)	( 0-0 )	KPD (%)
LCS1	Kjeldahl Nitrogen		4	4.28	MGL	107.0	(90-110)	
LCS2	Kjeldahl Nitrogen		4	4.35	MGL	107.0	(90-110)	1.6
MBLK	Kjeldahl Nitrogen		ND	<0.2	MGL	10017	( 30-120 )	1.0
MS	Kjeldahl Nitrogen		4	4.55	MGL	113.8	( 90-110 )	
MSD	Kjeldahl Nitrogen		4	4.54	MGL	113.5	(90-110)	0.22
RPD LCS	Kjeldahl Nitrogen		107.000	108.750	MGL	1.6	( 0-20 )	0.24
RPD MS	Kjeldahl Nitrogen		113.750	113.500	MGL	0.2	( 0-10 )	
	· · · · · · · · · · · · · · · · · · ·				*****	W - M	( 0 20 /	
_								
QC Ref	#294153	Total ph	osphor	us-P				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	10250319	MGL		( 0-0 )	
LCS1	Total phosphorus-P		0.4	0.395	MGL	98.8	( 90-110 )	
LCS2	Total phosphorus-P		0 - 4	0.419	MGL	104.7	( 90~110 )	5.9
MBLK	Total phosphorus-P		ND	<0.01	MGL			



Applied Research Dept, MWH (Darren Giles) (continued)

MS	Total phosphorus-P	0.4	0.415	MGL	103.7	( 90-110 )
MSD	Total phosphorus-P	0.4	0.432	MGL	108.0	( 90-110 ) 4.0
RPD_LCS	Total phosphorus-P	98.750	104.750	MGL	5.9	( 0-10 )
RPD_MS	Total phosphorus-P	103.750	108.000	MGL	4.0	( 0-10 )

#### QC Ref #294348 Ammonia Nitrogen

QC .	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10210217	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen	1.00	0.99	MGL	99.0	( 90-110 )	
LCS2	Ammonia Nitrogen	1.00	0.97	MGL	97.0	( 90-110 )	2.0
MBLK	Ammonia Nitrogen	ND	<0.05	MGL			
MS	Ammonia Nitrogen	1.00	0.97	MGL	97.0	( 90-110 )	
MSD	Ammonia Nitrogen	1.00	0.92	MGL	92.0	( 90-110 )	5.3

#### 159681 ARD-DG



2020 Del Amo Blvd. Suite 200, Torrance, CA 90501 • (310) 533-5190 • FAX (310) 533-5003 • mmercier@crglabs.com

November 12, 2005

MWH Laboratories 750 Royal Oaks Dr., Suite 100 Monrovia, CA 91016-3629

Re:

CRG Project ID:

P2502as

MWH Project:

159681

MWH Sub PO:

99-19196

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 159681 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on October 27, 2005. Per your instructions, the samples were analyzed for:

Organophosphorus Pesticides By GCMS Using EPA Method 625

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards, Misty B. Mercier Project Manager

Misty B. Mercier Digitally signed by Misty B. Mercier DN: CN = Misty B. Mercier, C = US, O = CRG Marine Laboratories, Inc., OU = Project Manager Date: 2005.11.12 15:02:57 -08'00'

Reviewed and Approved

### DATA REPORT

# 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### 

Client: //	MWH Laboratories						CRG Project ID:		2502a7
CRG ID#:	32503	Sample	2540050440			l			
35	R1	Description:	2310230146 Project #159681 / PO #99-19196	SHE 1 INF. #99-19196	SHE 1 INFLOW TO 1J POND 196	<del></del>	Date Sampled:	25-Oct-05	11:30
Batch ID: 2 Instrument: G	2502az-15051 GC/MS #2 Shimadzu QP2010	Matrix: Analyst:	Wastewater D. Gonsman				Date Processed:		
CONSTITUENT	FRACTION		WETHOD	DESTE T			yze	-08-Nov-05	
				NESOL I	CINID	MDL	ME D	DILUTION A FACTOR	ACCEPTANCE RANGE
(PCB030)	Total		EPA 625(m)	89	% Recovery	111111111111111111111111111111111111111	1111 a a a a a a a a a a a a a a a a a		46 - 119%
(PCB112)	Total		EPA 625(m)	89	% Recovery			· •	52 - 123%
(PCB198)	Total		EPA 625(m)	26	% Recovery			· <del></del>	59 - 123%
(TCMX)	Total		EPA 625(m)	83	% Recovery			· <del>.</del>	40 - 110%
Boistar (Sulprofos)	os) Total		EPA 625(m)	2	ng/L	10	20		NA NA
Chlorpyrifos	Total		EPA 625(m)	QN	ng/L	5	9	. <i>†</i>	V AZ
Demeton	Total		EPA 625(m)	ND	ng/L	5	20		Ϋ́Z
Diazinon	Total		EPA 625(m)	9	J/bu	5	0	. ←	<b>₹</b> Z
Dichlorvos	Total		EPA 625(m)	Q	J/bu	0	20	- 4m	V V
Dimethoate	Total		EPA 625(m)	ND	ng/L	3	10	. +	₹ Z
Disulfoton	Total		EPA 625(m)	ND	ng/L	10	2 02	· <del>-</del>	₹ V
Ethoprop (Ethoprofos)	orofos) Total		EPA 625(m)	QN	J/bu	<b>.</b>	2 6	- 4	( <
Fenchlorphos (Ronnel)	Ronnel) Total		EPA 625(m)	2	na/L	Ç	20	- 4-	(
Fensulfothion	Total		EPA 625(m)	QN	J/bu	10	20	٠,	(
Fenthion	Total		EPA 625(m)	ND	ng/L	Ö	20	- <del>V</del>	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
Maiathion	Total		EPA 625(m)	QN	ng/L	5	10	. <i>\</i>	Y N
Merphos	Total		EPA 625(m)	ON	ng/L	10	20	•	Υ N
Methyl Parathion	Total		EPA 625(m)	ND	ng/L	£	30	. *-	< <
Mevinphos (Phosdrín)	sdrín) Total		EPA 625(m)	QN QN	ng/L	10	30 30	- <del>4</del>	£ \$
Phorate	Total		EPA 625(m)	ON	na/L	10	, (S	~ <del>1-</del>	( <
Tetrachlorvinphos (Stirofos)	os (Stirofos) Total		EPA 625(m)	QN	1/00	; Ç	2 02	- +	2 2
Tokuthion	Total		EPA 625(m)	S	1.6:	, ¢	2 6	- ,	
Trichloronate	Total		EPA 625(m)	Q	ng/L	; <del>C</del>	20	4·	A V
					i in	<u>&gt;</u>	<b>†</b>	**	Į.

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 32503 R1

# **CRG Marine Laboratories, 9uc.**2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### 

Client:	Client: MWH Laboratories						CRG Project ID:		250227
.#CI 280	20504		1					ı	
Replicate #:		Sample Description:	2510250149 SITI Project #159681 / PO #99_19196	SITE 11	SITE 1 INFLOW TO TJ POND 2 106		Date Sampled:		11:45
Batch ID:			Wastewater				Date Received: Date Processed:	id: 27-Oct-05 sed: 28-Nov-05	
Instrument	GC/MS #2 Shimadzu QP2010	) Analyst:	D. Gonsman				Date Analyzed:		
CONSTITUENT	VV-0-1111	FRACTION	METHOD	RESULT	SLIND	MDL	RI,	DILUTION	ACCEPTANCE RANGE
(PCB030)	Ε.	Total E	EPA 625(m)	95	% Recovery				46 - 119%
(PCB112)	ř	Total E	EPA 625(m)	97	% Recovery			٠ <del>.</del>	50 403%
(PCB198)	TC	Total El	EPA 625(m)	26	% Recovery			- 4-	59 - 123%
(TCMX)	,	Fotal El	EPA 625(m)	82	% Recovery			·	40 - 110%
Bolstar (Sulprofos)			EPA 625(m)	Q	ng/L	10	20	. ****	N AN
Chlorpyrifos	Ţ	Total El	EPA 625(m)	QN ON	ng/L	Ф	10	•	Ž Ž
Demeton	T(	Total El	EPA 625(m)	NO NO	ng/L	10	20	· <del>-</del>	. A
Diazinon	ĭ	Totai Ei	EPA 625(m)	ND	ng/L	Ŋ	10	· 4-	NA N
Dichlorvas	ĭ	Total El	EPA 625(m)	QN	ng/L	10	2 2	- <b>4</b> ~~	A N
Dimethoate	<b>₩</b>	Fotal E	EPA 625(m)	ND	ng/L	, rb	10		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Disulfoton		Total EF	EPA 625(m)	NO	na/L	0,	2000	· <del>-</del>	V V
Ethoprop (Ethoprofos)	•	Fotal EF	EPA 625(m)	ΩN	ng/L	10	2 1	• 4	V V
Fenchlorphos (Ronnel)		Fotal EF	EPA 625(m)	ND	g/L ng/L	10	20	<del></del>	( A
Fensulfothion	ካ	Fota! EF	EPA 625(m)	QN	ng/L	10	20	· <del>.</del>	ζ Z
Fenthion	Tc	Fotal EF	EPA 625(m)	QN	ng/L	10	20	· •	Δ. Z.
Malathion	ř	Total EF	EPA 625(m)	QN	- ng/L	2	2	. 4	X X
Merphos		Total EF	EPA 625(m)	2	ng/L	10	20	•	Ž Ζ
Methyl Parathion		Pota! EF	EPA 625(m)	QN CN	ng/L	10	202		<b>₹</b> 2
Mevinphos (Phosdrin)	,	Total EF	EPA 625(m)	NO NO	, Jo	10	2 1	- +-	<u> </u>
Phorate		Fotal EF	EPA 625(m)	Q	na/L	10	3 8	- 4-	Ç
Tetrachlorvinphos (Stirofos)	•	Total EF	EPA 625(m)	2	na/L	<u>_</u>	30	• •	2 2
Tokuthion	To	Fotal EF	EPA 625(m)	QN	J/bu	5 0	200		( <
Trichloronate	To	Fotal EF	EPA 625(m)	NON	7/6u	10	202	- 4-	( A
					)		i t	•	

MDL:= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND=: Not Detected; NA=: Not Applicable.

California ELAP Certificate # 2261 ~ 32504

# 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### 

Client:	MWH Laboratories						CRG Project ID:		2502az
CRG ID#:		Sample	2510250150	SITE 2 OUT	SITE 2 OUTFLOW FR TJ POND1		Date Sampled:	Oct-05	12:30
Keplicate #:	R1	Description:	Project #159681 / PO #99-19196	) #99-19196			Date Received:	27-Oct-05	) i
Batch ID: Instrument:	2502az-15051 GC/MS #2 Shimadzu QP2010	Matrix: Analyst:	Wastewater D. Gonsman				Date Processed:		
CONSTITUENT	NT FRACTION		METHOD	RESULT	UNITS	MDI	Date Analyzed:	CO-NON-DO	ACCEPTANCE
	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	\$5000000000000000000000000000000000000		TO POLYCON THE TOTAL PROPERTY OF THE POLYCON THE POLYC					RANGE
(PCB030)	Total		EPA 625(m)	96	% Recovery				46 - 119%
(PCB112)	Total		EPA 625(m)	06	% Recovery			· <del>-</del>	52 - 123%
(PCB198)	Total		EPA 625(m)	86	% Recovery			· <del>-</del>	59 - 123%
(TCMX)	Total		EPA 625(m)	94	% Recovery			. 4	40 - 110%
Bolstar (Sulprofos)	rofos) Total		EPA 625(m)	QN	ng/L	10	20	. <b></b>	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Chlorpyrifos	Total		EPA 625(m)	Q	ng/L	5	10	· <del>/-</del>	ζ V
Demeton	Total		EPA 625(m)	ND	ng/L	10	50	· <del>-</del>	ΔN
Diazinon	Total		EPA 625(m)	QN	ng/L	ហ	10	- 4	ΔN
Dichlorvos	Total		EPA 625(m)	N ON	na/L	, Ç	2 02	• 4	<b>₹</b> 2
Dimethoate	Total		EPA 625(m)	NO	ng/L	'n	10	· <del>-</del>	( V
Disulfoton	Total		EPA 625(m)	QN	ng/L	, Ç	000	- 4	( <
Ethoprop (Ethoprofos)	roprofos) Total		EPA 625(m)	ND	na/L	; <u></u>	3 6	. <i>y</i>	( <
Fenchlorphos (Ronnel)	(Ronnel) Total		EPA 625(m)	N Q	ng/L	2 0	20 20		ξ V
Fensulfothion	Total		EPA 625(m)	ON	ng/L	10	20	· <del>-</del>	ζ <b>∀</b>
Fenthion	Total		EPA 625(m)	ON	ng/L	5	20	· •	χ <b>∀</b> Ν
Malathion	Total		EPA 625(m)	NO	J/Bu	2	10	· +-	₹ N
Merphos	Total		EPA 625(m)	ON	ng/L	10	20	· <del>(</del>	. <b>∀</b>
Methyl Parathion	nion Total		EPA 625(m)	NO	ng/L	70	20	- 4	<b>₹</b> ₹
Mevinphos (Phosdrin)	hosdrin) Total		EPA 625(m)	QN.	)   	: 5	3 8	- +-	Ç <u>ç</u>
Phorate	Total		EPA 625(m)	Q	no/l	; £	£ 5	- +	V <
Tetrachlorvinphos (Stirofos)	ohos (Stirofos) Total		EPA 625(m)	Q	ויטין	. 6	3 6	- +	( < Z
Tokuthion	Total		EPA 625(m)	CN	1 1/50	ć	0 6	~ 4	¥ 2
Trichloronate	Total		EDA 625(m)	) (	J .	2 :	7.0		ΨZ
			(III)	⊋	ng/L	9	20	_	Ϋ́

MDL.; ND= Not Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 R 32505

# **CRG Marine Laboratories, 9uc,**2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

## 

Client: MWH Laboratories	oratories						CRG Project ID:		2502az
CRG ID#: 32506 Replicate #: P-1		Sample Description:		SITE 2 OL	SITE 2 OUTFLOW FR TJ POND2	l	Date Sampled:	Oct-05	12:40
		Matrix:	riojec #1596617 PO #99-19196 Wastewater	0 #88-18186			Date Received:	27-Oct-05	
Instrument: GC/MS #2 Shir	GC/MS #2 Shimadzu QP2010	Analyst:	D. Gonsman				Date Analyzed:		
CONSTITUENT	FRACTION		МЕТНОВ	RESULT	UNITS	MDL	RL DII	DILUTION A FACTOR	ACCEPTANCE RANGE
(PCB030)	Total		EPA 625(m)	06	% Recovery		The state of the s	**************************************	46 - 119%
(PCB112)	Total		EPA 625(m)	89	% Recovery			· *	52 - 193%
(PCB198)	Total		EPA 625(m)	97	% Recovery				59 - 123%
(TCMX)	Total		EPA 625(m)	85	% Recovery			. 4-	40 - 110%
Bolstar (Sulprofos)	Total		EPA 625(m)	QN	ng/L	5	20	• •	N AN
Chlorpyrifos	Total		EPA 625(m)	Q.	ng/L	S	10	4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Demeton	Total		EPA 625(m)	QN	ng/L	10	20		. A
Diazinon	Total		EPA 625(m)	ON	T/Su	ις.	0	· <del>[-</del>	Ϋ́N
Dichlorvos	Total		EPA 625(m)	Q	ng/L	Ç	20		. ∠
Dimethoate	Total		EPA 625(m)	Q.	ng/L	ß	10	· •	. A
Disulfoton	Total		EPA 625(m)	ΩN	ng/L	10	20	· <del>-</del>	. ∀
Ethoprop (Ethoprofos)	Total		EPA 625(m)	NO	ng/L	Ç	20	. +-	X X
Fenchlorphos (Ronnel)	Total		EPA 625(m)	Ş	ng/L	÷ 0	20	- <i>\</i> w-	(
Fensulfothion	Total		EPA 625(m)	Q	ng/L	10	20	· +	Y N
Fenthion	Total		EPA 625(m)	Q	ng/L	5	20	• •	. V
Malathion	Total		EPA 625(m)	9	ng/L	9	10	· www	. A
Merphos	Total		EPA 625(m)	S	ng/L	10	20	4	Į Z
Methyl Parathion	Total	面	EPA 625(m)	Q	ng/L	10	20	· •	, A
Mevinphos (Phosdrin)	Total	面	EPA 625(m)	S	ng/L	0	20	-	. AN
Phorate	Total	Ш	EPA 625(m)	Q	ng/L	Ç	20	-	X N
Tetrachlorvinphos (Stirofos)	Total	Ш	EPA 625(m)	Q	ng/L	10	20	, <b>h</b>	Ą Z
Tokuthion	Total	莭	EPA 625(m)	QN	ng/L	10	50	. <del>4</del>	X X
Trichloronate	Total	▥	EPA 625(m)	Q	ng/L	10	20	+	NA

MDL: Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 R 32506

# **CRG Marine Laboratories, 9uc.**2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### 

Client:	MWH Laboratories	ries						CRG Project ID.	ioct ID.	25022
ı									Jac 15.	727007
	32507	<i>G)</i> [	Sample		SITE 3 BIG TJ WASH	TJ WASH 1		Date Sampled:	ed: 25-Oct-05	5 13:20
<b>t</b> .	¥	_	Jescription:	Project #159681 / PO #99-19196	7 #99-19196			Date Received	ed: 27-Oct-05	
Batch ID:	2502az-15051		Matrix:	Wastewater			_	Date Processed:		35
The state of the s	OVINO #2 SHIRBUZU C	ı	Analyst:	U. Gonsman				Date Analyzed:	ed: 08-Nov-05	)5
CONSTITUENT		FRACTION		МЕТНОВ	RESULT	UNITS	MDE	RI.	DILUTION	ACCEPTANCE
(PCB030)		Total	Ш	EPA 625(m)	94	% Recovery			1000	KANGE 4005
(PCB112)		Total	ш	EPA 625(m)	04	% Docorrory			<del>-</del> ,	40 - 13%
(PCB198)		Total	تنا	EPA 625(m)	5 6	% Recovery			- <b>\</b>	52 - 123%
(TCMX)		Total	ш	EPA 625(m)	) &C	% Recovery			··· •	59 - 123%
Bolstar (Sulprofos)	olos)	Total	ű	FDA 625(m)		( manner of	9	;		40 - 110%
Chlorovrifos		Total	l	7 / 020(III)	2 5	ng/L	<u></u>	20	<del>V</del>	A
Demoton		- (a)	IJ İ	EFA 023(M)	ON C	ng/L	5	10	τ-	ΑN
Certification		lotal	Ш	EPA 625(m)	Q	ng/L	10	20	4	¥.
Ulazinon		Total	ய	EPA 625(m)	S	ng/L	S	10	<b>←</b>	ΑN
Dichlorvos		Total	Ш	EPA 625(m)	Q	ng/L	10	20	•	ΔN
Dimethoate		Total	ū	EPA 625(m)	QN	ng/L	£9	10	· +	<b>₹</b> 2
Disulfoton		Total	回	EPA 625(m)	S	Ι/υυ	, Ç	2 5	٠ ٠	( ·
Ethoprop (Ethoprofos)	oprofos)	Total	ũ	EPA 625(m)	C	1/00	2 5	2 6	~ +	¥ .
Fenchlorphos (Ronnel)	(Ronnel)	Total	ū	EPA 625(m)		1 %00	5 5	20	- ,	¥ :
Fensulfothion		Total		EPA 625(m)	) <u>Q</u>	ופער	5 5	2 6	<del>-</del> •	<b>∀</b>
Fenthion		Total	ū	EPA 625(m)	Q	l/ou	9 0	00	~ +	ζ <u>γ</u>
Malathion		Total	苗	EPA 625(m)	Q	1/61/		3 Ç		ζ <u> </u>
Merphos		Total	Ü	EPA 625(m)	9	na/l	, Ç	000	• •	< <b>*</b>
Methyl Parathion	uo	Total	Ü	EPA 625(m)	NO	na/I	÷ (†	2 6	~ ₹-	Z Z
Mevinphos (Phosdrin)	nosdrin)	Total	Ф	EPA 625(m)	9	700	. C	200	- +	¥ × × × ×
Phorate		Total	Ü	EPA 625(m)	Q		Š	20 20	- *	¥*.
Tetrachlorvinphos (Stirofos)	hos (Stirofos)	Total	Ш	EPA 625(m)	9	1 BOO	÷ ÷	2 6	•	Ϋ́ :
Tokuthion		Total	1	EDA 636(m)	9 9	J/S/L	2 :	707		Α̈́
Trichloronate		B 7	וֹ נ	(III)	2	ng/L	10	20	_	ΝΑ
The next consequence		Otai	ũ	EPA 625(m)	Q	ng/L	5	20	<del></del>	NA V

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 32507 R1

# 2020 Del Amo Bivd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### 

Client:	MWH Laboratories	ies						CRG Project ID:		2502az
CRG ID#:	32508	S	Sample	2510250153	SITE 3 BIG	SITE 3 BIG TJ WASH 2		Date Sampled:	Oct-05	13:30
Batch ID:			Jestripilon. Matrix: Inalyet:	Project #159681 / PO #99-19196 Wastewater D. Gonsman	) #99-19196		tI	Date Received: Date Processed:		
		1	renyst.	C. Octobrian				Date Analyzed:	d: 08-Nov-05	
CONSTITUENT		FRACTION		МЕТНОБ	RESULT	UNITS	MDL	RL	DILUTION A FACTOR	ACCEPTANCE RANGE
(PCB030)		Total	ជា	EPA 625(m)	85	% Recovery		Principal Comment of the Comment of		46 + 119%,
(PCB112)		Total	Ü	EPA 625(m)	06	% Recovery			. 4	52 - 123%
(PCB198)		Total	Ш	EPA 625(m)	66	% Recovery			. ←	59 - 123%
(TCMX)		Total	Δ	EPA 625(m)	86	% Recovery			٠ ٠٠	40 - 110%
Bolstar (Sulprofos)	rofos)	Total	m	EPA 625(m)	Q	ng/L	5	20	-	V V
Chlorpyrifos		Total	Ш	EPA 625(m)	S	ng/L	5	10	<b>*</b>	Ą
Demeton		Total	ជា	EPA 625(m)	Q	ng/L	10	20	· <del>-</del>	Υ V
Diazinon		Total	Ü	EPA 625(m)	S	ng/L	S	10	•	NA
Dichlorvos		Total	Ш	EPA 625(m)	Q	ng/L	10	20	- *	( <b>∀</b>
Dimethoate		Total	ti	EPA 625(m)	QN	ng/L	S	10	· <del></del>	Z V
Disulfoton		Total	苗	EPA 625(m)	QN	ng/L	0	20		Y N
Ethoprop (Ethoprofos)	loprofos)	Total	Ę	EPA 625(m)	ON	J/bu	10	20	· <del>1-</del>	ΔN
Fenchlorphos (Ronnel)	(Ronnel)	Total	岀	EPA 625(m)	NO	ng/L	10	20		Z N
Fensulfothion		Total	岀	EPA 625(m)	NO	ng/L	10	70	· <del>(-</del>	Č Ž
Fenthion		Total	出	EPA 625(m)	ON	ng/L	10	20	•	. A
Malathion		Total	Ш	EPA 625(m)	ON	ng/L	2	\$	. <b>4</b>	. A
Merphos		Total	ш	EPA 625(m)	QN	ng/L	10	20	₹-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Methyl Parathion	lion	Total	EF	EPA 625(m)	NO NO	ng/L	5	20	-	AN
Mevinphos (Phosdrin)	hosdrin)	Total	田	EPA 625(m)	Q	ng/L	10	20	• •	ΔN
Phorate		Total		EPA 625(m)	Q.	ng/L	10	20	. 4	\ Z
Tetrachlorving	Tetrachlorvinphos (Stirofos)	Totai	Ш	EPA 625(m)	Q.	ng/L	10	20	· <del>-</del>	
Tokuthion		Total	Ę	EPA 625(m)	NO	ng/L	: 0	îc	- 4-	
Trichloronate		Total		EPA 625(m)	ON	ng/L	10	30 E		ζ ₹ Z

MDL.= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 32508 R1

# 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### 

Client:	MWH Laboratories	Si					CRG Project ID:		2502az
CRG ID#:		Sample		SITE 4 H	SITE 4 HAINES CYN CRK 1		Date Sampled:	25-Oct-05	10:00
replicate #:	E.	Description:		Project #159681 / PO #99-19196			Date Received:	27-Oct-05	
Batch ID:			Wastewater				Date Processed:		
Instrument:	GC/MS #2 Shimadzu QP2010	010 Analyst:	D. Gonsman				Date Analyzed:	: 08-Nov-05	
CONSTITUENT		FRACTION	метнор	RESULT	UNITS	MDL	RL I	DILUTION A FACTOR	ACCEPTANCE RANGE
(PCB030)		Total	EPA 625(m)	85	% Recovery			· · · · · · · · · · · · · · · · · · ·	46 - 119%
(PCB112)		Total	EPA 625(m)	86	% Recovery			•	52 - 123%
(PCB198)		Total	EPA 625(m)	46	% Recovery			· <del>,-</del>	59 - 123%
(TCMX)		Total	EPA 625(m)	85	% Recovery			- <del></del>	40 - 110%
Bolstar (Sulprofos)	ofos)	Total	EPA 625(m)	QN	ng/L	5	20	· *···	NA
Chlorpyrifos		Total	EPA 625(m)	QN	ng/L	Ŋ	9	<del></del>	Z Z
Demeton		Totai	EPA 625(m)	ΩN	ng/L	10	20	· <del>(-</del>	Z Z
Diazinon		Total	EPA 625(m)	ON	ng/L	r.	10	. ←	Ϋ́
Dichlorvos		Total	EPA 625(m)	NO	J/bu	10	20	. 4	. A
Dimethoate		Total	EPA 625(m)	ND	ng/L	S	10	4	Y Z
Disulfoton		Total	EPA 625(m)	QN	ng/L	10	20	<del>,</del>	Y X
Ethoprop (Ethoprofos)	oprofos)	Total	EPA 625(m)	QN	ng/L	10	20	_	. A
Fenchlorphos (Ronnel)	(Ronnel)	Total	EPA 625(m)	ON	ng/L	10	20	· +	Ϋ́
Fensulfothion		Total	EPA 625(m)	ND	ng/L	10	20	ţ	Υ X
Fenthion		Totai	EPA 625(m)	ON	ng/L	10	20	· •···	, AN
Malathion		Total	EPA 625(m)	ON	ng/L	5	10	<del></del>	₹ Z
Merphos		Total	EPA 625(m)	2	ng/L	10	20		Į Z
Methyl Parathion	ion	Total	EPA 625(m)	S	ng/L	10	20	ψ	A N
Mevinphos (Phosdrin)	hosdrin)	Total	EPA 625(m)	QN	ng/L	Ç	20	- 4	. AN
Phorate		Total	EPA 625(m)	Q	ud/L	10	20	. 4	. d
Tetrachlorvinphos (Stirofos)	hos (Stirofos)	Total	EPA 625(m)	Q.	ng/L	10	20	•	. d
Tokuthion		Total	EPA 625(m)	2	ng/L	0,	20	•	. ∢ . Z
Trichloronate		Totai	EPA 625(m)	Q	ng/L	ç	20	· · · · · · · · · · · · · · · · · · ·	NA A

MDL: Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 2 32509

# **CRG Marine Laboratories, 9uc.**2020 Dei Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

### 

Client: A	MWH Laboratories						CRG Project ID:		2502az
CRG ID#:	32510	Sample	2510250155	INTER HAI	SITE A HAINES CVN CDV 2		3 - 4 - 6		
Replicate #:	R1	Description:	Project #159681 / PO #99-19196	) #99-19196	NES CIN CAN 2		Date Sampled: Date Pecolised:	25-Oct-05	10:15
Batch ID:	2502az-15051 GC/MS #2 Shimadzu OP2010	Matrix:	Wastewater				Date Processed:		
		Allary St.	D. Ootioisiali				Date Analyzed:	08-Nov-05	
CONSTITUENT	FRACTION		МЕТНОВ	RESULT	UNITS	MDL	RI, D	DILUTION A FACTOR	ACCEPTANCE RANGE
(PCB030)	Total		EPA 625(m)	101	% Recovery		\$VV\$5555555555555555555555555555555555		46 - 119%
(PCB112)	Total		EPA 625(m)	100	% Recovery				52 - 123%
(PCB198)	Total		EPA 625(m)	108	% Recovery			- <del>, .</del>	59 - 123%
(TCMX)	Total		EPA 625(m)	26	% Recovery				40 - 110%
Bolstar (Sulprofos)	fos) Total		EPA 625(m)	Q.	ng/L	10	20	. ****	NAN
Chlorpyrifos	Total		EPA 625(m)	Q.	ng/L	S	10	· •	Z Z
Demeton	Total		EPA 625(m)	QN	ng/L	10	20		Ϋ́ Z
Diazinon	Total		EPA 625(m)	QN	ng/L	ĸ	Ç	· +	Ϋ́ N
Dichlorvos	Total		EPA 625(m)	Q	ng/L	10	20	. *	Z Z
Dimethoate	Total		EPA 625(m)	Q.	ng/L	S	10	· <del>-</del>	ζ Z
Disulfoton	Total		EPA 625(m)	ON	ng/L	0	20	· <del>-</del>	ΑN
Ethoprop (Ethoprofos)	profos) Total		EPA 625(m)	ON	ng/L	0,	20		ΔN
Fenchlorphos (Ronnel)	Ronnel) Total		EPA 625(m)	NO NO	ng/L	10	20	. <del>(</del>	Υ N
Fensulfothion	Total		EPA 625(m)	QN	ng/L	10	20	· <del>-</del>	ξ Z
Fenthion	Total		EPA 625(m)	S	ng/L	0	20	· <del></del>	Ž V
Malathion	Total		EPA 625(m)	O _N	ng/L	က	10	· •	. AN
Merphos	Total		EPA 625(m)	QN	ng/L	10	20		V.V.
Methyl Parathion	ın Total		EPA 625(m)	ON	J/Su	÷ ¢	2 6		< <u> </u>
Mevinphos (Phosdrin)	osdrin) Total		EPA 625(m)	ON ON	ng/L	: Ç	200		Ç <
Phorate	Total		EPA 625(m)	NO.	ng/L	) (1)	30	- 4-	( <
Tetrachlorvinphos (Stirofos)	os (Stirofos) Total		EPA 625(m)	QN		5 5	000	- +	ξ « 2 •
Tokuthion	Total		EPA 625(m)	2	i =	5 5	2 6	··· •	Y .
Trichtoronate	Total		EPA 625(m)	2	1 = 1	2 (	2.0	_	AA
			(HI)		ng/L	<u></u>	20	<del>-</del>	Ϋ́

MDL.; ND= Not Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL.; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 32510 R1

#### QUALITY CONTROL REPORT

# 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

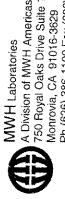
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32502					)	)	こうじてこうこう	
7								4705a2
	Sample Description:	QAQC Proise   Proise	Procedural Blank	Blank	۵	Date Sampled:	pq;	
2502az-15051	Matrix:	DI Water	08181-88#		ă	Date Received:		
GC/MS #2 Shimadzu QP2010	Analyst:	D. Gonsman			د د	Date Processed: Date Analyzed:	sed: 28-Nov-05 ed: 08-Nov-05	05 05
FRACTION	-	METHOD	RESULT	UNITS	MDL	RL	E C	ğ
Total		PA 625(m)	66	% Recovery	***************************************			KANGE
Total		PA 625(m)	5	% Becomen				40 - 119%
Total		PA 625(m)	95	% Recovery			- 1	52 - 123%
Total		PA 625(m)	96	% Recovery			+	59 - 123%
Total		PA 625(m)		e manage of	Ş	ć	<u>.</u>	40 - 110%
Total		PA 625(m)	9 8	1/6u	⊇ ເ	22	<del>, .</del> .	AN
Total		>A 625(m)	2 5	761	ი წ	0L 8	<del></del> .	ď
Total		2A 625(m)	2 2	11g/L	⊇ .	20	ę	NA
Total		A 525(m)	<u> </u>	ng/L	က	<del>Q</del>	<del></del>	<b>₹</b>
etoT		A 62E(==)	2 :	J/Gu	Ç	20	۲	ΑΝ
i cig		-A 625(m)	Q	ng/L	5	10	***	AN AN
		⁵ A 625(m)	QN	ng/L	10	20	•	. A
		² A 625(m)	S	ng/L	Ç	20	. Hin	
	10	² A 625(m)	Q	ng/L	10	; ;	- *-	<u> </u>
Total		² A 625(m)	QN	ng/L	: 0	200	٠ ٠	2 2
Total	Ē	² A 625(m)	Q	no/L	÷ 01	3 8	- *	Ç S
Total	Ш	² A 625(m)	Q	ng/L	i un	£	~ ~	ζ <
Total	廿	² A 625(m)	S	μα	, Ç	2 6	- 4	
Total	Ш	A 625(m)	Q	- B.	5 5	2 6	- 4	¥ \$
in) Total	Ш	² A 625(m)	QN	1,60	2 0	2 6	··· +	Y :
Total	Ę	A 625(m)	2	J #00	, ,	0 0	- ,	AN :
	4	A 625(m)		1 -	2 4	0 6		ΨZ
Total	i ii	0.625(m)	2 9	IIG/L	2 :	20	<b>*</b> ~~	NA NA
Total L	֧֧֧֧֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֝֞֞֝֝֝֝֝֝֟֝֟֝֟	A 625(111)	2 :	J/Ĝ∕	2	20	<del>-</del>	AN
י סנמו	<u>ה</u>	A 025(M)	ON.	ng/L	0	20	<del>/</del>	NA
(PCB030) (PCB112) (PCB198) (TCMX) Bolstar (Sulprofos) Chlorpyrifos Demeton Diazinon Diszinon Disulfoton Ethoprof (Ethoprof Fenchlorphos (Ron Fenthion Walathion Werphos Methyl Parathion Wethyl Parathion Getrachlorvinphos (1 Fockuthion Tichloronate	os) in)  Stirofos)	Total		Total EPA 625(m)   Total         EPA 625(m)           Total         EPA 625(m)	Total         EPA 625(m)         99         % Recovery           Total         EPA 625(m)         91         % Recovery           Total         EPA 625(m)         96         % Recovery           Total         EPA 625(m)         ND         ng/L           Total         EPA 625(m)         ND         ng/L	Total         EPA 625(m)         99         % Recovery           Total         EPA 625(m)         91         % Recovery           Total         EPA 625(m)         96         % Recovery           Total         EPA 625(m)         ND         ng/L         10           Total         EPA 625(m)         ND         ng/L	Total         EPA 625(m)         99         % Recovery           Total         EPA 625(m)         91         % Recovery           Total         EPA 625(m)         95         % Recovery           Total         EPA 625(m)         ND         ng/L         10           Total         EPA 625(m)         ND         ng/L	

MDL=Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 32502 B1

## CHAIN-OF-CUSTODY



Ph (626) 386-1100 Fax (626) 386-1095 A Division of MWH Americas, Inc. 750 Royal Oaks Drive Suite 100

*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!
Report & Invoice must have the MWH Project Number 159681 Sub PO# 99-19196 and Job #

Submittal Form & Purchase Order 99-19196

10/26/05

Date

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report.

Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix

MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016

EMAIL TO: Michael Lettona@mwhglobal.com

Accounts Payable PO BOX 6610, Broomfield, CO 80021

Invoices to: MWH LABORATORIES Phone (626) 386-1137 Fax (626) 386-1095

Reports: Michael Lettona Sub-contracting Administrator

CA ELAP WW

Misty B. Mercler **CRG MARINE** Ship To

Torrance, CA 90501-1206 2020 Del Amo Blvd Suite 200

(310) 533-5190 x106

(310)533-5003Fax

MWH Project # Report Due: 11/10/05 159681

\$ub PO#

mg-

@DIAZEDD @ DIAZEDD @DIAZEDD @DIAZEDD @DIAZEDD @DIAZEDD @DIAZEDD @ DIAZEDD

99-19196

Client Sample ID for reference only

Analysis Requested

Matrix Sample Date & Time

Containe

32569-3250

PJS0292

10/25/05 11:30 WW 3 1L amber glass+ buffer+ascorbio+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU 10/25/05 13:20 W/W 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU 10/25/05 10:00 WW 3 1L amber glass+ buffer+ascorbio+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU 10/25/05 11:45 10/25/05 12:30 10/25/05 12:40 10/25/05 13:30 10/25/05 10:15 DIAZINON & CHLORPYRIFOS by 625 DIAZINON & CHLORPYRIFOS by 625 SITE 2 OUTFLOW FRM TJ POUND1 DIAZINON & CHLORPYRIFOS by 625 SITE 2 OUTFLOW FRM TJ POUND2 DIAZINON & CHLORPYRIFOS by 625 DIAZINON & CHLORPYRIFOS by 625 DIAZINON & CHLORPYRIFOS by 625 SITE 4 HAINES CANYON CREEK 1 DIAZINON & CHLORPYRIFOS by 625 SITE4 HAINES CANYON CREEK 2 DIAZINON & CHLORPYRIFOS by 625 SITE 1 INFLOW TO 1J POND 2 SITE 1 INFLOW TO TJ POND 1 SITE 3 BIG TJ WASH 2 SITE 3 BIG TJ WASH 1 2510250143 2510250149 2510250150 2510250152 2510250153 2510250154 2510250151 2510250155

Relinquished by:

Received by:

Date 10/26/05 Sample Control

Time/339 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS

An Acknowledgement of Receipt is requested to attn: Michael Lettona

Time /

BIG TUJUNGA WASH MITIGATION BANK WATER QUALITY MONITORING PROGRAM

**DECEMBER 2005 LABORATORY RESULTS** 



#### Laboratory Report

for

Applied Research Dept, MWH (Darren Giles) 327 West Maple Avenue

Monrovia , CA 91016

Attention: Darren Giles Fax: (626) 359-3593



LXG Linda Geddes Project Manager Report#: 164120

BIG-TJ

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments,QC Report,QC Summary,Data Report,Hits Report, totaling 19 page[s].





#### Group Comments

Analytical results for Diazinon/Chlorpyrifos by GCMS are submitted by CRG Marine Laboratories, Torrance, CA. ELAP 2261

#### (QC Ref#: 300757)

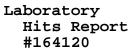
Test: Nitrite, Nitrogen by IC (ML/EPA 300.0)

QC Type: LCS1

Results high biased. Data not affected since all results are "ND".

QC Type: LCS2

Results high biased. Data not affected since all results are "ND".





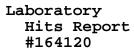
Monrovia , CA 91016

Applied Research Dept, MWH (Darren Giles) Darren Giles 327 West Maple Avenue

Samples Received

22-dec-2005 14:34:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2512220091	SITE 1 INFLOW	TO TJ POND	1		
12/22/05 01/12/06 12/22/05 12/22/05 12/22/05 12/22/05 01/09/06 12/22/05	Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Total Coliform Total phosphor Turbidity	gen (calc) rogen by IC -P Bacteria	30 0.23 17 3.9 0.027 500 0.086 0.55	45 10 5	MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL mg/l NTU	2 0.2 0.88 0.2 0.01 2 0.01 0.05
	2512220095	SITE 1 INFLOW	TO TJ POND	2		
12/27/05 12/22/05 01/12/06 12/22/05 12/22/05 12/22/05 12/22/05 01/09/06 12/22/05	Ammonia Nitrog Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Total Coliform Total phosphor Turbidity	Bacteria gen (calc) rogen by IC -P Bacteria	0.06 13 0.37 17 3.9 0.028 2800 0.083 0.60	45 10 5	mg/l MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL mg/l MPN/100 mL	0.05 2 0.2 0.88 0.2 0.01 2 0.01 0.05
	2512220096	SITE 2 OUTFLOW	FROM TJ PO	OND 1		
12/27/05 12/22/05 01/12/06 12/22/05 12/22/05 12/22/05	Ammonia Nitrog Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate	Bacteria gen (calc) rogen by IC	0.08 2 0.56 15 3.4 0.028	45 10	mg/l MPN/100 mL mg/l mg/l mg/l mg/l	0.05 2 0.2 0.88 0.2 0.01





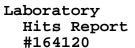
Applied Research Dept, MWH (Darren Giles)
Darren Giles

22-dec-2005 14:34:23

Samples Received

327 West Maple Avenue Monrovia , CA 91016

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2512220096	SITE 2 OUTFLOW	FROM TJ PO	ND 1		
12/22/05 01/09/06 12/22/05	Total Coliform Total phosphor Turbidity		7000 0.051 0.50	5	MPN/100 mL mg/l NTU	2 0.01 0.05
	2512220097	SIT2 2 OUTFLOW	FROM TJ PO	ND 2		
12/27/05 12/22/05 01/12/06 12/22/05 12/22/05 12/22/05 12/22/05 01/09/06 12/22/05	Ammonia Nitrog Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Total Coliform Total phosphor Turbidity	Bacteria gen (calc) rogen by IC -P Bacteria	0.07 13 0.25 15 3.4 0.027 16000 0.083 0.35	45 10 5	mg/l MPN/100 mL mg/l mg/l mg/l mg/l MPN/100 mL mg/l MPN/100 mL	0.05 2 0.2 0.88 0.2 0.01 2 0.01 0.05
	2512220098	SIT2 3 BIG TJ	WASH 1			
01/03/06 12/22/05 01/12/06 12/22/05 01/09/06 12/22/05	Ammonia Nitrog Fecal Coliform Kjeldahl Nitro Total Coliform Total phosphor Turbidity	Bacteria gen Bacteria	0.17 2 0.25 2200 0.067 0.90	5	mg/l MPN/100 mL mg/l MPN/100 mL mg/l NTU	0.05 2 0.2 2 0.01 0.05
	2512220099	SITE 3 BIG TJ	WASH 2			
01/03/06 12/22/05	Ammonia Nitrog Fecal Coliform		0.16 7		mg/l MPN/100 mL	0.05





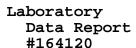
Monrovia , CA 91016

Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue

Samples Received

22-dec-2005 14:34:23

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2512220099	SITE 3 BIG TJ	WASH 2			
01/12/06 12/22/05 01/09/06 12/22/05	Kjeldahl Nitro Total Coliform Total phosphor Turbidity	Bacteria	0.21 1700 0.010 0.95	5	mg/l MPN/100 mL mg/l NTU	0.2 2 0.01 0.05
	2512220100	SITE 4 HAINES	CANYON CRE	EK 1		
01/03/06 12/22/05 01/12/06 12/22/05 12/22/05 12/22/05 12/22/05 01/09/06 12/22/05	Fecal Coliform	Bacteria gen (calc) rogen by IC -P Bacteria	0.15 11 0.26 15 3.4 0.030 260 0.054 0.60	45 10 5	mg/l MPN/100 mL mg/l mg/l mg/l mg/l mg/l MPN/100 mL mg/l NTU	0.05 2 0.2 0.88 0.2 0.01 2 0.01 0.05
	2512220101	SITE 4 HAINES	CANYON CRE	EK 2		
01/03/06 12/22/05 01/12/06 12/22/05 12/22/05 12/22/05 12/22/05 01/09/06 12/22/05	Ammonia Nitrog Fecal Coliform Kjeldahl Nitro Nitrate as NO3 Nitrate as Nit Orthophosphate Total Coliform Total phosphor Turbidity	Bacteria gen (calc) rogen by IC -P Bacteria	0.08 8 0.27 15 3.4 0.032 280 0.083 0.90	45 10 5	mg/l MPN/100 mL mg/l mg/l mg/l mg/l mg/l MPN/100 mL mg/l NTU	0.05 2 0.2 0.88 0.2 0.01 2 0.01 0.05





Applied Research Dept, MWH (Darren Giles)
Darren Giles
327 West Maple Avenue
Monrovia , CA 91016

Samples Received

12/22/05

Prepared Analyzed QC Ref# Method Analyte Result Units MRT. Dilution SITE 1 INFLOW TO TJ POND 1 (2512220091) Sampled on 12/22/05 10:00 12/22/05 16:30 ( ML/SM9221C ) Fecal Coliform Bacteria MPNM 1 12/23/05 00:00 300874 ( ML/EPA 547 ) Glyphosate ND ug/l 1 12/27/05 00:02 300950 ( ML/EPA 350.1 ) Ammonia Nitrogen ND mq/l 0.05 1 12/22/05 19:24 300757 ( ML/EPA 300.0 ) Nitrite, Nitrogen by IC ND mg/l 0.2 2 12/22/05 19:24 300759 ( EPA/MW 300.0 ) Nitrate as Nitrogen by IC 0.2 3.9 mq/l 2 12/22/05 19:24 300754 ( ) Nitrate as NO3 (calc) 17 mg/l 0.88 2 12/22/05 18:15 300807 0.01 ( 4500P-E/365.2 ) Orthophosphate-P 0.027 mq/11 01/09/06 15:06 302102 ( S4500PE/ 365.1) Total phosphorus-P 0.086 mq/l 0.01 1 01/12/06 14:04 302713 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.23 0.2 1 mq/112/22/05 16:30 ( ML/SM9221B ) Total Coliform Bacteria 500 MPNM 12/22/05 17:52 300764 ( ML/EPA 180.1 ) Turbidity 0.55 וודע 0.05 1 Diazinon/Chlorpyrifos by GCMS 12/30/05 00:00 ( EPA 625 MODSUB) Diazinon ND 10 na/1 12/30/05 00:00 ( EPA 625 MODSUB) Bolstar (Sulprofos) ND ng/l 2.0 1 12/30/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND 10 1 nq/1 12/30/05 00:00 ( EPA 625 MODSUB) Demeton ND ng/l 20 12/30/05 00:00 ( EPA 625 MODSUB) Dichlorvos 20 ND nq/l 1 12/30/05 00:00 ( EPA 625 MODSUB) Disulfoton ND ng/l 20 12/30/05 00:00 ( EPA 625 MODSUB) Dimethoate 10 1 ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Ethoprop (Ethoprophos) ND ng/l 20 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) 12/30/05 00:00 ND ng/l 20 1 12/30/05 00:00 ( EPA 625 MODSUB) Fensulfothion ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Fenthion ND ng/l 20 12/30/05 00:00 ( EPA 625 MODSUB) Merphos ND 20 1 na/1 12/30/05 00:00 ( EPA 625 MODSUB) Mevinphos (Phosdrin) ND ng/l 20 1 12/30/05 00:00 ( EPA 625 MODSUB) Malathion ND na/1 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND ng/l 20 12/30/05 00:00 ( EPA 625 MODSUB) Phorate ng/l 20 1 ND 12/30/05 00:00 ( EPA 625 MODSUB) Tokuthion ng/l 20 1 12/30/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND ng/l 2.0



#### Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed QC Ref# Method Analyte Result  12/30/05 00:00 ( EPA 625 MODSUB) Trichloronate ND  SITE 1 INFLOW TO TJ POND 2 (2512220095) Sampled on 12/22/05 16:30 ( ML/SM9221C ) Fecal Coliform Bacteria 13 12/23/05 00:00 300874 ( ML/EPA 547 ) Glyphosate ND	Units ng/l	MRL 20	Dilution
SITE 1 INFLOW TO TJ POND 2 (2512220095) Sampled on 12/22/05 16:30 (ML/SM9221C ) Fecal Coliform Bacteria 13	_	20	1
12/22/05 16:30 ( ML/SM9221C ) Fecal Coliform Bacteria 13	12/22/05		-
	12/22/US	10:15	
12/23/05 00:00 300874 ( ML/EPA 547 ) Glyphosate ND	MPNM	2	1
	ug/l	6	1
12/27/05 00:02 300950 ( ML/EPA 350.1 ) Ammonia Nitrogen 0.06	mg/l	0.05	1
12/22/05 19:58 300757 ( ML/EPA 300.0 ) Nitrite, Nitrogen by IC ND	mg/l	0.2	2
12/22/05 19:58 300759 ( EPA/MW 300.0 ) Nitrate as Nitrogen by IC 3.9	mg/l	0.2	2
12/22/05 19:58 300754 ( ) Nitrate as NO3 (calc) 17	mg/l	0.88	2
12/22/05 18:15 300807 ( 4500P-E/365.2 ) Orthophosphate-P 0.028	mg/l	0.01	1
01/09/06 15:06 302102 ( S4500PE/ 365.1) Total phosphorus-P 0.083	mg/l	0.01	1
01/12/06 14:04 302713 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.37	mg/l	0.2	1
12/22/05 16:30 ( ML/SM9221B ) Total Coliform Bacteria 2800	MPNM	2	1
12/22/05 17:52 300764 ( ML/EPA 180.1 ) Turbidity 0.60	NTU	0.05	1
Diazinon/Chlorpyrifos by GCMS 12/30/05 00:00 (EPA 625 MODSUB) Diazinon ND	ng/l	5	1
	ng/l		
12/30/05 00:00 ( EPA 625 MODSUB) Bolstar (Sulprofos) ND	ng/l	10 5	1
12/30/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND	ng/1	10	
12/30/05 00:00 ( EPA 625 MODSUB) Demeton ND	ng/1		1
12/30/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND 12/30/05 00:00 ( EPA 625 MODSUB) Disulfoton ND	ng/1	10 10	1
12/30/05 00:00 (EPA 625 MODSUB) Dimethoate ND	ng/l ng/l	5	1
12/30/05 00:00 (EPA 625 MODSUB) Ethoprop (Ethoprophos) ND	ng/l	10	1
12/30/05 00:00 (EPA 625 MODSUB) Fenchlorophos (Ronnel) ND	ng/l	10	1
12/30/05 00:00 (EPA 625 MODSUB) Fensulfothion ND	ng/l	10	1
12/30/05 00:00 (EPA 625 MODSUB) Fenthion ND	ng/l	10	1
12/30/05 00:00 (EPA 625 MODSUB) Merphos ND	ng/l	10	1
12/30/05 00:00 (EPA 625 MODSUB) Mevinphos (Phosdrin) ND	ng/l	10	1
12/30/05 00:00 (EPA 625 MODSUB) Malathion ND	ng/1	5	1
12/30/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND	ng/1	10	1
12/30/05 00:00 ( EPA 625 MODSUB) Phorate ND	ng/l	10	1
12/30/05 00:00 ( EPA 625 MODSUB) Tokuthion ND	ng/l	10	1
12/30/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) ND	ng/l	10	1
12/30/05 00:00 ( EPA 625 MODSUB) Trichloronate ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed MRL QC Ref# Method Analyte Result Units Dilution SITE 2 OUTFLOW FROM TJ POND 1 (2512220096) Sampled on 12/22/05 11:00 12/22/05 16:30 ( ML/SM9221C ) Fecal Coliform Bacteria 2 MPNM 12/23/05 00:00 300874 ( ML/EPA 547 ) Glyphosate ND ug/l 1 12/27/05 00:02 300950 ( ML/EPA 350.1 ) Ammonia Nitrogen 0.08 0.05 mg/l 12/22/05 20:10 300757 ( ML/EPA 300.0 ) Nitrite, Nitrogen by IC ND mg/l 0.2 2 12/22/05 20:10 300759 ( EPA/MW 300.0 ) Nitrate as Nitrogen by IC 3.4 mq/l 0.2 2 12/22/05 20:10 300754 ) Nitrate as NO3 (calc) 15 mg/l 0.88 2 12/22/05 18:15 300807 ( 4500P-E/365.2 ) Orthophosphate-P 0.028 0.01 mq/l 1 01/09/06 15:06 302102 ( S4500PE/ 365.1) Total phosphorus-P 0.051 mg/l 0.01 1 01/12/06 14:04 302713 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.56 mq/10.2 1 12/22/05 16:30 ( ML/SM9221B ) Total Coliform Bacteria 7000 MPNM 2 1 12/22/05 17:52 300764 ( ML/EPA 180.1 ) Turbidity 0.50 וודע 0.05 1 Diazinon/Chlorpyrifos by GCMS 12/30/05 00:00 ( EPA 625 MODSUB) Diazinon ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Bolstar (Sulprofos) ND ng/l 1.0 12/30/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND na/1 5 12/30/05 00:00 ( EPA 625 MODSUB) Demeton ND ng/l 1.0 12/30/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND 10 nq/1 12/30/05 00:00 ( EPA 625 MODSUB) Disulfoton ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Dimethoate ng/l ND 5 1 ( EPA 625 MODSUB) Ethoprop (Ethoprophos) 12/30/05 00:00 ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) 10 1 ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Fensulfothion ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Merphos ND 10 ng/1 12/30/05 00:00 ( EPA 625 MODSUB) Mevinphos (Phosdrin) ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Malathion ND na/1 5 1 12/30/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Phorate ND nq/1 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tokuthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) 10 1 ND na/1 12/30/05 00:00 ( EPA 625 MODSUB) Trichloronate na/1 10



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed MRL QC Ref# Method Analyte Result Units Dilution SIT2 2 OUTFLOW FROM TJ POND 2 (2512220097) Sampled on 12/22/05 11:20 12/22/05 16:30 ( ML/SM9221C ) Fecal Coliform Bacteria 2 MPNM 12/23/05 00:00 300874 ( ML/EPA 547 ) Glyphosate ND ug/l 1 12/27/05 00:02 300950 ( ML/EPA 350.1 ) Ammonia Nitrogen 0.07 0.05 mg/112/22/05 20:22 300757 ( ML/EPA 300.0 ) Nitrite, Nitrogen by IC ND mg/l 0.2 2 12/22/05 20:22 300759 ( EPA/MW 300.0 ) Nitrate as Nitrogen by IC 3.4 mq/l 0.2 2 12/22/05 20:22 300754 ) Nitrate as NO3 (calc) 15 mg/l 0.88 2 12/22/05 18:15 300807 ( 4500P-E/365.2 ) Orthophosphate-P 0.027 0.01 mq/l 1 01/09/06 15:06 302102 ( S4500PE/ 365.1) Total phosphorus-P 0.083 mg/l 0.01 1 01/12/06 14:04 302713 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.25 mg/l 0.2 1 12/22/05 16:30 ( ML/SM9221B ) Total Coliform Bacteria 16000 MPNM 2 1 12/22/05 17:52 300764 ( ML/EPA 180.1 ) Turbidity 0.35 וודע 0.05 1 Diazinon/Chlorpyrifos by GCMS 12/30/05 00:00 ( EPA 625 MODSUB) Diazinon ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Bolstar (Sulprofos) ND ng/l 1.0 12/30/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND na/1 5 12/30/05 00:00 ( EPA 625 MODSUB) Demeton ND 1.0 ng/1 12/30/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND 10 nq/1 12/30/05 00:00 ( EPA 625 MODSUB) Disulfoton ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Dimethoate ng/l ND 5 1 ( EPA 625 MODSUB) Ethoprop (Ethoprophos) 12/30/05 00:00 ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) 10 1 ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Fensulfothion ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Merphos ND 10 ng/1 12/30/05 00:00 ( EPA 625 MODSUB) Mevinphos (Phosdrin) ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Malathion ND na/1 5 1 12/30/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Phorate ND nq/1 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tokuthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) 10 1 ND na/1 12/30/05 00:00 ( EPA 625 MODSUB) Trichloronate na/1 10



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
SIT2	3 BIG TJ	WASH 1	(25122200	98) Sampled on	12/22/05	12:30		
	12/22/05 16:30	)	( ML/SM9221C	Fecal Coliform Bacteria	2	MPNM	2	1
	12/23/05 00:00	300874	( ML/EPA 547	Glyphosate	ND	ug/l	6	1
	01/03/06 00:00	301490	( ML/EPA 350.1	Ammonia Nitrogen	0.17	mg/l	0.05	1
	12/22/05 20:33	300757	( ML/EPA 300.0	Nitrite, Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:33	300759	( EPA/MW 300.0	Nitrate as Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05 20:33	300754	(	Nitrate as NO3 (calc)	ND	mg/l	0.88	2
	12/22/05 18:15	300807	( 4500P-E/365.2 )	Orthophosphate-P	ND	mg/l	0.01	1
	01/09/06 15:06	302102	( S4500PE/ 365.1)	Total phosphorus-P	0.067	mg/l	0.01	1
	01/12/06 14:04	302713	( ML/EPA 351.2	Kjeldahl Nitrogen	0.25	mg/l	0.2	1
	12/22/05 16:30	)	( ML/SM9221B	Total Coliform Bacteria	2200	MPNM	2	1
	12/22/05 17:52	300764	( ML/EPA 180.1	Turbidity	0.90	NTU	0.05	1
	12/30/05 00:00	)	Diazinon/C	Chlorpyrifos by GCM	IS ND	ng/l	5	1
	12/30/05 00:00			Bolstar (Sulprofos)	ND	ng/1	10	1
	12/30/05 00:00		( EPA 625 MODSUB)	· •	ND	ng/l	5	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	<del></del>	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Dichlorvos	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Disulfoton	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Dimethoate	ND	ng/l	5	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Ethoprop (Ethoprophos)	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Fenchlorophos (Ronnel)	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Fensulfothion	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Fenthion	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Merphos	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Mevinphos (Phosdrin)	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Malathion	ND	ng/l	5	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Parathion-methyl	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Phorate	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Tokuthion	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Tetrachlorovinphos (Stirophos)	ND	ng/l	10	1
	12/30/05 00:00	)	( EPA 625 MODSUB)	Trichloronate	ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared	Analyzed		QC Ref#	Method	Analyte		Result	Units	MRL	Dilution
SITE	3 BIG	TJ V	WASH 2	2 (25122	20099)	Sampled	on 12/22/05	12:45		
	12/22/05	16:30		( ML/SM92210	C ) Fecal Col	iform Bacteria	7	MPNM	2	1
	12/23/05	00:00	300874	( ML/EPA 547	) Glyphosate	Э	ND	ug/l	6	1
	01/03/06	00:00	301490	( ML/EPA 350	0.1 ) Ammonia N	itrogen	0.16	mg/l	0.05	1
	12/22/05	20:45	300757	( ML/EPA 300	0.0 ) Nitrite,	Nitrogen by IC	ND	mg/l	0.2	2
	12/22/05	20:45	300759	( EPA/MW 300	0.0 ) Nitrate a	s Nitrogen by I	C ND	mg/l	0.2	2
	12/22/05	20:45	300754	(	) Nitrate a	s NO3 (calc)	ND	mg/l	0.88	2
	12/22/05	18:15	300807	( 4500P-E/36	55.2 ) Orthophos	phate-P	ND	mg/l	0.01	1
	01/09/06	15:06	302102	( S4500PE/ 3	365.1) Total pho	sphorus-P	0.010	mg/l	0.01	1
	01/12/06	14:04	302713	( ML/EPA 351	L.2 ) Kjeldahl	Nitrogen	0.21	mg/l	0.2	1
	12/22/05	16:30		( ML/SM9221E	) Total Col	iform Bacteria	1700	MPNM	2	1
	12/22/05	17:52	300764	( ML/EPA 180	.1 ) Turbidity		0.95	NTU	0.05	1
	12/30/05	00:00			on/Chlorpy	rifos by	GCMS ND	ng/l	5	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Bolstar (	Sulprofos)	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Chlorpyri	fos	ND	ng/l	5	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Demeton		ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Dichlorvo	3	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Disulfoto	n	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Dimethoat	е	ND	ng/l	5	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Ethoprop	(Ethoprophos)	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Fenchloro	phos (Ronnel)	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Fensulfot	nion	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Fenthion		ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Merphos		ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Mevinphos	(Phosdrin)	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Malathion		ND	ng/l	5	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Parathion	-methyl	ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Phorate		ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Tokuthion		ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Tetrachlo	rovinphos (Stire	ophos) ND	ng/l	10	1
	12/30/05	00:00		( EPA 625 MC	DDSUB) Trichloro	nate	ND	ng/l	10	1



Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed QC Ref# Method Analyte Result Units MRL Dilution SITE 4 HAINES CANYON CREEK 1 (2512220100) Sampled on 12/22/05 08:30 12/22/05 16:30 ) Fecal Coliform Bacteria ( ML/SM9221C 1 12/23/05 00:00 300874 ( ML/EPA 547 ) Glyphosate ND ug/l 1 01/03/06 00:00 301490 ( ML/EPA 350.1 ) Ammonia Nitrogen 0.15 0.05 mg/112/22/05 21:20 300757 ( ML/EPA 300.0 ) Nitrite, Nitrogen by IC ND mg/l 0.2 2 12/22/05 21:20 300759 ( EPA/MW 300.0 ) Nitrate as Nitrogen by IC 3.4 mq/l 0.2 2 12/22/05 21:20 300754 ) Nitrate as NO3 (calc) 15 mg/l 0.88 2 12/22/05 18:15 300807 ( 4500P-E/365.2 ) Orthophosphate-P 0.01 0.030 mq/l 1 01/09/06 15:06 302102 ( S4500PE/ 365.1) Total phosphorus-P 0.054 mg/l 0.01 1 01/12/06 14:04 302713 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.26 mq/10.2 1 12/22/05 16:30 ( ML/SM9221B ) Total Coliform Bacteria 260 MPNM 2 1 12/22/05 17:52 300764 ( ML/EPA 180.1 ) Turbidity 0.60 וודע 0.05 1 Diazinon/Chlorpyrifos by GCMS 12/30/05 00:00 ( EPA 625 MODSUB) Diazinon ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Bolstar (Sulprofos) ND ng/l 1.0 12/30/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND na/1 5 12/30/05 00:00 ( EPA 625 MODSUB) Demeton ND 1.0 ng/1 12/30/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND 10 nq/1 12/30/05 00:00 ( EPA 625 MODSUB) Disulfoton ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Dimethoate ng/l ND 5 1 12/30/05 00:00 ( EPA 625 MODSUB) Ethoprop (Ethoprophos) ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) 10 1 ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Fensulfothion ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Merphos ND 10 ng/1 12/30/05 00:00 ( EPA 625 MODSUB) Mevinphos (Phosdrin) ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Malathion ND na/1 5 1 12/30/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Phorate ND nq/1 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tokuthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) 10 1 ND na/1 12/30/05 00:00 ( EPA 625 MODSUB) Trichloronate na/1 10



12/30/05 00:00

Applied Research Dept, MWH (Darren Giles) (continued)

Prepared Analyzed QC Ref# Method Analyte Result Units MRL Dilution SITE 4 HAINES CANYON CREEK 2 (2512220101) Sampled on 12/22/05 08:45 12/22/05 16:30 ) Fecal Coliform Bacteria ( ML/SM9221C 1 12/23/05 00:00 300874 ( ML/EPA 547 ) Glyphosate ND ug/l 1 01/03/06 00:00 301490 ( ML/EPA 350.1 ) Ammonia Nitrogen 0.08 0.05 mg/112/22/05 21:43 300757 ( ML/EPA 300.0 ) Nitrite, Nitrogen by IC ND mg/l 0.2 2 12/22/05 21:43 300759 ( EPA/MW 300.0 ) Nitrate as Nitrogen by IC 3.4 mq/l 0.2 2 12/22/05 21:43 300754 ) Nitrate as NO3 (calc) 15 mg/l 0.88 2 12/22/05 18:15 300807 ( 4500P-E/365.2 ) Orthophosphate-P 0.01 0.032 mq/l 1 01/09/06 15:06 302102 ( S4500PE/ 365.1) Total phosphorus-P 0.083 mg/l 0.01 1 01/12/06 14:04 302713 ( ML/EPA 351.2 ) Kjeldahl Nitrogen 0.27 mg/l 0.2 1 12/22/05 16:30 ( ML/SM9221B ) Total Coliform Bacteria 280 MPNM 2 1 12/22/05 17:52 300767 ( ML/EPA 180.1 ) Turbidity 0.90 וודע 0.05 1 Diazinon/Chlorpyrifos by GCMS 12/30/05 00:00 ( EPA 625 MODSUB) Diazinon ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Bolstar (Sulprofos) ND ng/l 1.0 12/30/05 00:00 ( EPA 625 MODSUB) Chlorpyrifos ND na/1 5 12/30/05 00:00 ( EPA 625 MODSUB) Demeton ND 1.0 ng/1 12/30/05 00:00 ( EPA 625 MODSUB) Dichlorvos ND 10 nq/1 12/30/05 00:00 ( EPA 625 MODSUB) Disulfoton ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Dimethoate ng/l ND 5 1 12/30/05 00:00 ( EPA 625 MODSUB) Ethoprop (Ethoprophos) ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenchlorophos (Ronnel) 10 1 ND ng/l 12/30/05 00:00 ( EPA 625 MODSUB) Fensulfothion ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Fenthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Merphos ND 10 ng/1 12/30/05 00:00 ( EPA 625 MODSUB) Mevinphos (Phosdrin) ND ng/l 10 12/30/05 00:00 ( EPA 625 MODSUB) Malathion ND na/1 5 1 12/30/05 00:00 ( EPA 625 MODSUB) Parathion-methyl ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Phorate ND nq/1 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tokuthion ND ng/l 10 1 12/30/05 00:00 ( EPA 625 MODSUB) Tetrachlorovinphos (Stirophos) 10 1 ND na/1

( EPA 625 MODSUB) Trichloronate

na/1

10



2512220099

Applied Research Dept, MWH (Darren Giles)

QC Ref #300754 - Nitrate as NO3 (calc)  Analysis Date: 12/22/2005  2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300757 - Nitrite, Nitrogen by IC Analysis Date: 12/22/2005  2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  2512220096 SITE 1 INFLOW TO TJ POND 1 2512220101 SITE 1 INFLOW TO TJ POND 1 2512220101 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220099 SITE 3 BIG TJ WASH 2 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220096 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005					
2512220096   SITE 1 INPLOW TO TJ POND 2	QC Ref	#300754 - Nitr	ate as NO3 (calc)	Analysis Date:	: 12/22/2005
2512220096   SITE 1 INPLOW TO TJ POND 2		2512220091	SITE 1 INF	LOW TO TJ POND 1	
2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220098 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SIT2 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300757 - Nitrite, Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 1 2512220099 SITE 3 BIG TJ WASH 2 2512220099 SITE 3 BIG TJ WASH 2 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220099 SITE 4 HAINES CANYON CREEK 1 2512220099 SITE 1 INFLOW TO TJ POND 2 2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220096 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 2			STTE 1 INF	LOW TO TJ POND 2	
2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220099 SITE 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300757 - Nitrite, Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  QC Ref #300759 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220098 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005		2512220096	SITE 2 OUT	FLOW FROM TJ POND 1	
2512220098 SITE 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300757 - Nitrite, Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SITE 2 OUTFLOW FROM TJ POND 2 2512220098 SITE 3 BIG TJ WASH 1 2512220098 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220098 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220090 SITE 4 HAINES CANYON CREEK 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005		2512220097	SIT2 2 OUT	FLOW FROM TJ POND 2	
2512220100 SITE 3 BIG TJ WASH 2 2512220101 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300757 - Nitrite, Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 2 OUTFLOW FROM TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SITE 2 OUTFLOW FROM TJ POND 1 2512220099 SITE 3 BIG TJ WASH 2 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005  2512220095 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220096 SITE 1 INFLOW TO TJ POND 2 2512220097 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 1 INFLOW TO TJ POND 2 2512220097 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 2		2512220098	SIT2 3 BIG	TJ WASH 1	
2512220101 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300757 - Nitrite, Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005  QC Ref #300764 - Turbidity FROM TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220096 SITE 1 INFLOW TO TJ POND 1 2512220097 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SITE 1 INFLOW TO TJ POND 2		2512220099	SITE 3 BIG	TJ WASH 2	
QC Ref #300757 - Nitrite, Nitrogen by IC		2512220100	SITE 4 HAI	NES CANYON CREEK 1	
2512220091 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2 2512220098 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300759 - Nitrate as Nitrogen by IC Analysis Date: 12/22/2005  2512220101 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 1 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 1 2512220098 SIT2 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 1 2512220099 SITE 3 BIG TJ WASH 2 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005  QC Ref #300764 - SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 2 2512220097 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SITE 2 OUTFLOW FROM TJ POND 2		2512220101	SITE 4 HAI	NES CANYON CREEK 2	
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2512220099 SITE 3 BIG TJ WASH 2 2512220100 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2		2512220098	SIT2 3 BIG	TJ WASH 1	
2512220101 SITE 4 HAINES CANYON CREEK 1 2512220101 SITE 4 HAINES CANYON CREEK 2  QC Ref #300764 - Turbidity Analysis Date: 12/22/2005  2512220091 SITE 1 INFLOW TO TJ POND 1 2512220095 SITE 1 INFLOW TO TJ POND 2 2512220096 SITE 2 OUTFLOW FROM TJ POND 1 2512220097 SIT2 2 OUTFLOW FROM TJ POND 2		2512220099	SITE 3 BIG	TJ WASH 2	
QC Ref #300764 - Turbidity  Analysis Date: 12/22/2005  2512220091		2512220100	SITE 4 HAI	NES CANYON CREEK 1	
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			SITE 2 OUT	FLOW FROM TJ POND 1	
2512220098 SIT2 3 BIG TJ WASH 1					
		2512220098	SIT2 3 BIG	TJ WASH 1	

SITE 3 BIG TJ WASH 2



Applied Research Dept, MWH (Darren Giles) (continued)

2512220100 SITE 4 HAINES CANYON CREEK 1

QC Ref #300767 - Turbidity Analysis Date: 12/22/2005

2512220101 SITE 4 HAINES CANYON CREEK 2

QC Ref #300807 - Orthophosphate-P Analysis Date: 12/22/2005

2512220091	SITE	1	INFLOW TO TJ POND 1
2512220095	SITE	1	INFLOW TO TJ POND 2
2512220096	SITE	2	OUTFLOW FROM TJ POND 1
2512220097	SIT2	2	OUTFLOW FROM TJ POND 2
2512220098	SIT2	3	BIG TJ WASH 1
2512220099	SITE	3	BIG TJ WASH 2
2512220100	SITE	4	HAINES CANYON CREEK 1
2512220101	SITE	4	HAINES CANYON CREEK 2

### QC Ref #300874 - Glyphosate Analysis Date: 12/23/2005

2512220091 2512220095		_	INFLOW TO TJ POND 1 INFLOW TO TJ POND 2
2512220096		_	OUTFLOW FROM TJ POND 1
2512220097	SIT2	2	OUTFLOW FROM TJ POND 2
2512220098	SIT2	3	BIG TJ WASH 1
2512220099	SITE	3	BIG TJ WASH 2
2512220100	SITE	4	HAINES CANYON CREEK 1
2512220101	SITE	4	HAINES CANYON CREEK 2

### QC Ref #300950 - Ammonia Nitrogen Analysis Date: 12/27/2005

2512220091	SITE	1	INFLOW TO TJ POND 1	
2512220095	SITE	1	INFLOW TO TJ POND 2	
2512220096	SITE	2	OUTFLOW FROM TJ POND	1
2512220097	SIT2	2	OUTFLOW FROM TJ POND	2



Applied Research Dept, MWH (Darren Giles) (continued)

QC Ref #301490 - Ammonia Nitrogen Analysis Date: 01/03/2006

2512220098	SIT2	3	BIG TJ	WASH 1		
2512220099	SITE	3	BIG TJ	WASH 2		
2512220100	SITE	4	HAINES	CANYON	CREEK	1
2512220101	SITE	4	HAINES	CANYON	CREEK	2

QC Ref #302102 - Total phosphorus-P Analysis Date: 01/09/2006

2512220091	SITE 1 INFLOW TO TJ POND 1
2512220095	SITE 1 INFLOW TO TJ POND 2
2512220096	SITE 2 OUTFLOW FROM TJ POND 1
2512220097	SIT2 2 OUTFLOW FROM TJ POND 2
2512220098	SIT2 3 BIG TJ WASH 1
2512220099	SITE 3 BIG TJ WASH 2
2512220100	SITE 4 HAINES CANYON CREEK 1
2512220101	SITE 4 HAINES CANYON CREEK 2

QC Ref #302713 - Kjeldahl Nitrogen Analysis Date: 01/12/2006

2512220091	SITE	1	INFLOW TO TJ POND 1
2512220095	SITE	1	INFLOW TO TJ POND 2
2512220096	SITE	2	OUTFLOW FROM TJ POND 1
2512220097	SIT2	2	OUTFLOW FROM TJ POND 2
2512220098	SIT2	3	BIG TJ WASH 1
2512220099	SITE	3	BIG TJ WASH 2
2512220100	SITE	4	HAINES CANYON CREEK 1
2512220101	SITE	4	HAINES CANYON CREEK 2



Applied Research Dept, MWH (Darren Giles)

$\cap$ C	₽of	#300757	Nitrite.	Nitrogen	haz T	٠
UL.	кет	#.500/57	NTLLTLE	NTLLOGEII	$\mathbf{D} \mathbf{v} = \mathbf{I}$	ι.

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	12220091	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.11	MGL	111.0	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.11	MGL	111.0	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrite, Nitrogen by IC	0.500	0.511	MGL	102.2	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	0.500	0.518	MGL	103.6	( 90-110 )	

### QC Ref #300759 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	12220091	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.71	MGL	108.4	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.66	MGL	106.4	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.1	MGL			
MS	Nitrate as Nitrogen by IC	1.25	1.2	MGL	96.0	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	( 90-110 )	

### QC Ref #300764 Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.10	0.10	NTU		( 0-20 )	0.0
MRL_CHK	Turbidity	0.0500	0.054	NTU	108.0	( 50-150 )	

### QC Ref #300767 Turbidity

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Turbidity	0.30	0.30	NTU		( 0-20 )	0.0
MRL_CHK	Turbidity	0.0500	0.054	NTU	108.0	( 50-150 )	



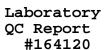
Applied Research Dept, MWH (Darren Giles) (continued)

QC Ref	#300807	Orthoph	osphat	e-P				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	12220114	MGL		( 0-0 )	
LCS1	Orthophosphate-P		0.5	0.512	MGL	102.4	( 90-110 )	
LCS2	Orthophosphate-P		0.5	0.508	MGL	101.6	( 90-110 )	
MBLK	Orthophosphate-P		ND	<0.01	MGL			
MRL_CHK	Orthophosphate-P		0.010	0.009	MGL	90.0	( 50-150 )	
MS	Orthophosphate-P		0.5	0.493	MGL	98.6	( 80-120 )	
MSD	Orthophosphate-P		0.5	0.493	MGL	98.6	( 80-120 )	
QC Ref	#300874	Glyphos	ate					
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	12220091	UGL		( 0-0 )	
LCS1	Glyphosate		10	9.40	UGL	94.0	( 82-115 )	
MBLK	Glyphosate		ND	<6	UGL			
MRL_CHK	Glyphosate		6.00	6.35	UGL	105.8	( 50-150 )	
MS	Glyphosate		10	10.5	UGL	105.0	( 82-115 )	
MSD	Glyphosate		10	10.5	UGL	105.0	( 82-115 )	
QC Ref	#300950	Ammonia	Nitro	gen				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	12200278	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen		1.00	0.94	MGL	94.0	( 90-110 )	
LCS2	Ammonia Nitrogen		1.00	0.95	MGL	95.0	( 90-110 )	
MBLK	Ammonia Nitrogen		ND	<0.05	MGL			
MS	Ammonia Nitrogen		1.00	0.93	MGL	93.0	( 90-110 )	
MSD	Ammonia Nitrogen		1.00	0.93	MGL	93.0	( 90-110 )	



Applied Research Dept, MWH (Darren Giles) (continued)

QC Ref	#301490	Ammonia	Nitro	gen				
oc	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		- Lab # 25	12220155	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen		1.00	1.07	MGL	107.0	( 90-110 )	
LCS2	Ammonia Nitrogen		1.00	1.08	MGL	108.0	( 90-110 )	
MBLK	Ammonia Nitrogen		ND	<0.05	MGL			
MS	Ammonia Nitrogen		1.00	0.93	MGL	93.0	( 90-110 )	
MSD	Ammonia Nitrogen		1.00	0.92	MGL	92.0	( 90-110 )	
_		_						
QC Ref	#302102	Total p	hospho	rus-P				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	12220101	MGL		( 0-0 )	
LCS1	Total phosphorus-P		0.4	0.401	MGL	100.2	( 90-110 )	
LCS2	Total phosphorus-P		0.4	0.401	MGL	100.2	( 90-110 )	
MBLK	Total phosphorus-P		ND	<0.01	MGL			
MS	Total phosphorus-P		0.4	0.417	MGL	104.2	( 90-110 )	
MSD	Total phosphorus-P		0.4	0.387	MGL	96.8	( 90-110 )	
RPD_LCS	Total phosphorus-P		100.250	100.250	MGL	0.0	( 0-10 )	
RPD_MS	Total phosphorus-P		104.250	96.750	MGL	7.5	( 0-10 )	
		_	_					
QC Ref	#302713	Kjeldah	l Nitr	ogen				
QC	Analyte		Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample		Lab # 25	12220275	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen		4	4.56	MGL	114.0	( 90-110 )	
LCS2	Kjeldahl Nitrogen		4	4.27	MGL	106.7	( 90-110 )	
MBLK	Kjeldahl Nitrogen		ND	<0.2	MGL			
MS	Kjeldahl Nitrogen		4	4.39	MGL	109.7	( 90-110 )	
MSD	Kjeldahl Nitrogen		4	4.47	MGL	111.8	( 90-110 )	





Applied Research Dept, MWH (Darren Giles) (continued)

RPD_LCS Kjeldahl Nitrogen 114.000 106.750 MGL 6.6 ( 0-20 )
RPD_MS Kjeldahl Nitrogen 109.750 111.750 MGL 1.8 ( 0-10 )



### CHAIN OF CUSTODY RECORD

MWHLABS USE ONLY:

021h9/

Monrovia Ca 91016 (626) 386-1100 750 Royal Oaks Drive Suite 100

J. J	(Compliance: 4 +/- 2*C	(eheck for yes)	THAWED
SAMPLES CHECKED/LOGGED IN BY:	SAMPLE TEMP, RECEIPT AT LAB	SAMPLES RECEIVED DAY OF COLLECTION?	BLUE ICE: FROZEN PARTIALLY FROZEN THAWED
LOGIN COMMENTS: SAMPLES CHECKED/LOGGED IN BY:	Terroria -	Tremonde	BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TAT requested: STANDARD									4 .					
1A1 requested: STANDARD			o	COMPLIANCE SAMPLES	ANCE	SAM	PLES		CHECK TOLL YES)		REGULATION:	ION:		1
				,	- Requires state forms	es staf	e forn	ટા			(SDWA, I	(SDWA, Phase V, NPDES, FDA,)	DA,)	
			Z	NON-COMPLIANCE SAMPLES	MPL	ANCE	SAM	PLES						
PROJECT CODE PROJECT JOB # / P.O.# CLIENT CODE	CLIENT COD	F~1	REFE	R TO	ATTA(	CHED	BOT	T E C	AC AC	E C	REFER TO ATTACHED BOTT! E ORDER FOR ANA! VSES	L SEC		7
Big TJ Sampling 1342289.5620.051801 ARD-DG	1	C								2	שואר	353	(check for yes)	
CAMPI EPICE DEINTED NAME AND GOOD AND COME				ANAL	YSES	REQU	IRED	(mark	an X	inal	tests req	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)	ple line)	
Darren Giles									ļ					_
		1							ŧ	91	*****		SAMPLER	
TIME DATE LOCATION IDENTIFIER, STATE ID# ZIX G GOMP SIATE TO CATION C G G G G G G G G G G G G G G G G G G	MATRIX	СОМР	4-J	LKN D-PO4	708	608	nrbidit <u>;</u> ecal Col	otal Col	sinomm	esoudár	nonizal		COMMENTS	
icec 12/22 SITE 1 Inflow to TJ Pond #1 X			+		√×	╂			۷ ×		a >			
ieis iz fiz SITE 1 Inflow to TJ Pond #2 X			X	<del> </del>	×	-		_	( ) ×	1 >	< >			<del></del>
				+-		-	+-		4 3	( )	<b>*</b>	00 00		
- AMALAN			+	$\dashv$	<		۲ د	<		~	X	<u> </u>		
11 20 (2 (22 SITE 2 Outflow from TJ Pond #2 X			×	X	×	×	×	×	X	×	×	c   t   c   t   t   t   t   t   t   t	12/22	_
1230 12/22 SITE 3 Big TJ Wash #1 X	*		X	×	×	×	X	×	×	×	×			<del></del>
1245 12/22 SITE 3 Big TJ Wash #2 X			×	×	×	×	×		×	×	X			
8.30 (1/22 SITE 4 Haines Canyon Creek #1 X			X	×	×	<del> </del>	<del> </del>	╂	×	: ×	×			
8: 45 (2/22 SITE 4 Haines Canyon Creek #2 X			X	╁	×				×	: ×	: >		726	
	A THE STATE OF THE					<del> </del>	-			:		7	(8)	
			-	-		-	$\perp$	-					and the state of t	
			-			-	_	-						
					SW	= Storm Water	n Wat	e.			***********	Reported by Weight:	Weight:	
RSW = Kaw Surface Water RGW = Raw Ground Water CFW = Chlor(am)inated Finished Water	FW = Other Finish CFW = Chlor(am)ina	d Water ted Finisl	hed Wa	er	WW = Other Waste Water $CWW = $ Chlorinated Waste Water	= Other Waste Water	er Was	te War	ter ste Wa	iter	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SO = Soil $SL = Sludge$		

TIME

DATE

COMPANY/TITLE

PRINT NAME

SIGNATURE

RELINQUISHED BY: RECEIVED BY: SPECIAL INSTRUCTIONS

A GILLA

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(2/22/

S 50

### MWH Laboratories

750 Royal Oaks Drive, Monrovia, CA 91016 PHONE: 626-386-1100/FAX: 626-386-1101

### ACKNOWLEDGMENT OF SAMPLES RECEIVED

Applied Research Dept, MWH (Darren Giles)

NO2 - N

327 West Maple Avenue Customer Code: ARD-DG

Monrovia, CA 91016 PO#: 1342289.5620.051801

Attn: Darren Giles Group#: 164120 Phone: (626) 303-5945 Project#: BIG-TJ

Nitrite, Nitrogen by IC

The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa

Proj Mgr: Linda Geddes Phone: (626) 386-1163

The following samples were received from you on 12/22/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix		Sample Date
2512220091	SITE 1 INFLO	W TO TJ POND 1  @DIAZEDD FECCOL  NO3A OPO4	Water GLYPHOS	NH3	22-dec-2005 10:00:00 NO2-N NO3
2512220095	SITE 1 INFLO	V TO TJ POND 2	T-P Water	TKN	TOTCOL TURB 22-dec-2005 10:15:00
		@DIAZEDD FECCOL NO3A OPO4	GLYPHOS T-P	NH3 TKN	NO2-N NO3 TOTCOL TURB
2512220096	SITE 2 OUTFLO	OW FROM TJ POND 1	Water		22-dec-2005 11:00:00
		@DIAZEDD FECCOL NO3A OPO4	GLYPHOS T-P	NH3 TKN	NO2-N NO3 TOTCOL TURB
2512220097	SIT2 2 OUTFLO	OW FROM TJ POND 2 @DIAZEDD FECCOL	Water		22-dec-2005 11:20:00
		NO3A OPO4	GLYPHOS T-P	NH3 TKN	NO2-N NO3 TOTCOL TURB
2512220098	SIT2 3 BIG TO	J WASH 1 @DIAZEDD FECCOL	Water GLYPHOS	NH3	22-dec-2005 12:30:00 NO2-N NO3
2512220099	SITE 3 BIG TO	NO3A OPO4 WASH 2	T-P Water	TKN	TOTCOL TURB 22-dec-2005 12:45:00
		@DIAZEDD FECCOL NO3A OPO4	GLYPHOS T-P	NH3 TKN	NO2-N NO3
2512220100	SITE 4 HAINES	CANYON CREEK 1	Water		22-dec-2005 08:30:00
		@DIAZEDD FECCOL NO3A OPO4	GLYPHOS T-P	NH3 TKN	NO2-N NO3 TOTCOL TURB
2512220101	SITE 4 HAINES	CANYON CREEK 2  @DIAZEDD FECCOL	Water GLYPHOS	NIIIO	22-dec-2005 08:45:00
		NO3A OPO4	T-P	NH3 TKN	NO2-N NO3 TOTCOL TURB
		Test Acronym	Descriptio	n	
Test Acı	conym Descr	iption		TAG	
@DIA FECO GLYA NH3	COL Fecal PHOS Glyph	non/Chlorpyrifos l Coliform Bacteria osate ia Nitrogen			

Applied Research Dept, MWH (Darren Giles)

327 West Maple Avenue

Monrovia, CA 91016 Attn: Darren Giles Phone: (626) 303-5945

Customer Code: ARD-DG

PO#: 1342289.5620.051801

Group#: 164120 Project#: BIG-TJ

Proj Mgr: Linda Geddes
Phone: (626) 386-1163

### Test Acronym Description

Test Acronym	Description
NO3	Nitrate as Nitrogen by IC
NO3A	Nitrate as NO3 (calc)
OPO4	Orthophosphate-P
	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TOTCOL	Total Coliform Bacteria
TURB	Turbidity



2020 Del Amo Blvd. Suite 200, Torrance, CA 90501 • (310) 533-5190 • FAX (310) 533-5003 • mmercier@crgtabs.com

January 3, 2006

MWH Laboratories 70 Royal Oaks Dr., Suite 100 Monrovia, CA 91016-3629

Re:

CRG Project ID:

P2502ba

MWH Project:

164120

MWH Sub PO:

99-20661

ATTN: Mr. Michael Lettona

CRG Laboratories is pleased to provide you with the enclosed analytical data report for your 164120 Project. According to the chain-of-custody, 8 wastewater samples were received intact and cool at CRG on December 23, 2005. Per your instructions, the samples were analyzed for:

Diazinon & Chlorpyrifos By GCMS Using EPA Method 625m

Please don't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards, Misty B. Mercier Project Manager

Misty B. Mercier Digitally signed by Misty B. Mercier DN: CN = Misty B. Mercier, C = US, O = CRG Marine Laboratories, Inc. Date: 2006.01.13 09:11:47 -08'00'

Reviewed and Approved

### DATA REPORT

# CRG Marine Laboratories, Inc. 2020 Del Amo Bivd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client:	Client: MWH Laboratories						CRG Project ID:		2502ba
CRG ID#: Replicate #:	33 <b>714</b> R1	Sample Description:	251220091 Project # 164120 / PO 99-20661	SITE 1 INFL:	SITE 1 INFLOW TO 1J POND 1		Date Sampled:	: 22-Dec-05	10:00
Batch ID: Instrument:	2502ba-15148 GC/MS #3 Agilent 6890/5973	Matrix: Analyst:	Waste Water D. Gonsman				Date Processed: Date Analyzed:		
CONSTITUENT		FRACTION	METHOD	RESULT	SLINI	MDL	RL	DILUTION A FACTOR	ACCEPTANCE RANGE
(PCB030)	Tota	ıtal	EPA 625m	100	% Recovery				46 - 119%
(PCB112)	Total	ıtai	EPA 625m	26	% Recovery			<del></del>	52 - 123%
(PCB198)	Total		EPA 625m	06	% Recovery			~	59 - 123%
(TCMX)	Tota	****	EPA 625m	98	% Recovery			****	40 - 110%
Bolstar (Sulprofos)	rofos) Tota		EPA 625m	NO NO	ng/L	10	20	***	AN
Chlorpyrifos	Tota	_	EPA 625m	2	ng/L	τC	10	<del>-</del>	ΑN
Demeton	Tota		EPA 625m	QN CO	ng/L	10	20	***	AN
Diazinon	Tota		EPA 625m	9	ng/L	2	10	-	AN
Dichlorvos	Tota		EPA 625m	QN	ng/L	10	20	-	AZ AZ
Dimethoate	Tota		EPA 625m	QN	ng/L	5	10	<del></del>	A Z
Disulfoton	Tota	_	EPA 625m	ND	ng/L	10	20	-	₹ Z
Ethoprop (Ethoprofos)	noprofos) Tota	_	EPA 625m	QN	ng/L	10	20	<b>4</b>	ΑN
Ferrchlorphos (Ronnel)	s (Ronnel) Tota	_	EPA 625m	g	ng/L	10	20	£	NA
Fensulfothion	Tota	Margar.	EPA 625m	Q	ng/L	10	20	~	Ą
Fenthion	Tota		EPA 625m	Q	ng/L	10	20	•	A A
Malathion	Tota		EPA 625m	Q	ng/L	5	10	<del>-</del>	ΑN
Merphos	Tota		EPA 625m	2	ng/L	10	20	<b>~</b>	N A
Methyl Parathion	nion Tota		EPA 625m	N	ng/L	10	20	<b>-</b>	AN
Mevinphos (Phosdrin)	Phosdrin) Tota		EPA 625m	QN	ng/L	10	20	<del>f</del> ur	₹
Phorate	Total		EPA 625m	QN	ng/L	10	20	₹	AN N
Tetrachlorving	Fetrachlorvinphos (Stirofos) Total		EPA 625m	9	ng/L	10	20	<del>-</del>	NA
Tokuthion	Total		EPA 625m	QN	ng/L	10	20	_	ĄN
Trichloronate	Total		EPA 625m	Q	J/Bu	10	20	-	AN AN

MDL=Method Detection Limit (CFR 40 Part 136); RL=Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33714 R1

# **CRG Marine Laboratories, Juc,**2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client: /	MIWH Laboratories						CRG Project ID:		250250
CRG ID#;	33715	Sample	251220005	11111			2011000	ı	SOURDA
**	R1	Description:	231220033 Project # 164120 / PO 99-20661	SHE 1 INFL 99-20661	SHE 1 INFLOW TO TJ POND 2 361		Date Sampled:	22-Dec-05	10:15
Batch ID: Instrument:	2502ba-15148 GC/MS #3 Anilant 6800/5073	Matrix:	Waste Water				Date Received: Date Processed:	23-Dec-05	
	COMO #3 Agrent boad/3973	Analyst:	ບ. Gonsman			_	Date Analyzed:	30-Dec-05	
CONSTITUENT	FRACT	NOI	METHOD	RESULT	UNITS	MDI,	RI. D	DILUTION	ACCEPTANCE
(PCB030)	Tota		EPA 625m	100	% Recovery			4C10K	KANGE
(PCB112)	Total		EPA 625m	103	% Recovery			- +	40 - 119%
(PCB198)	Total		EPA 625m	95	% Recovery			<del></del> -	52 - 123%
(TCMX)			EPA 625m	66	% Recovery			- 4-	39 - 123%
Bolstar (Sulprofos)			EPA 625m	Q.	ng/L	10	20	· <del>-</del>	S AN
Chlorpyritos	Total		EPA 625m	QN	ng/L	ťΩ	10	· •	( V
Demeton	Total		EPA 625m	QN	ng/L	2	20	· *··	<b>₹</b> 2
Diazinon	Total		EPA 625m	QN	ng/L	ည	10	· <del></del>	ζ 4
Dichlorvos	Total		EPA 625m	8	ng/L	10	20	· •	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Ulmethoate	Total		EPA 625m	QN	ng/L	ເນ	10	• •	( V
Disultoton			EPA 625m	ND	ng/L	0	20	<del></del>	VΝ
Effoprop (Ethoprofos)			EPA 625m	QN QN	ng/L	2	20	- 4	ζ <u>Α</u>
renaniorphos (Rannei)			EPA 625m	2	ng/L	10	20	· <del>-</del>	A N
Fensulfothion	Total		EPA 625m	NO ON	ng/L	10	20	. +	Ž Ž
Mention	Total		EPA 625m	QN QN	ng/L	10	20	<b>4</b>	. A
Marathion	Total		EPA 625m	N	ng/L	ις	10	-	Ž Ž
Methods			EPA 625m	QN.	ng/Ľ	10	20	4-	
Methyl Parathion			EPA 625m	Q	ng/L	10	20	· <del>-</del>	X X
Mevinphos (Phosdrin)	osdrin) Total		EPA 625m	ND QN	ng/L	0	20		Y V
Phorate	Total		EPA 625m	Q	na/L	Ç	1 6	~ <b>4</b> -	< <
Tetrachlorvinphos (Stirofos)	los (Stirofos) Total		EPA 625m	ND	ng/L	2 0	2 02	- *-	Y 2
lokuthion	Total		EPA 625m	QN	ng/L	. 0	50 20	- +	Į ON
I richioronate	Total		EPA 625m	QN	ng/L	10	50	<b>,</b>	ž ž

MDL= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33715

8

# (2800 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client:	Client: MWH Laboratories					ľ	CRG Project ID:		2502ba
CRG ID#: Replicate #;	<b>33716</b> R1	Sample Description:	251220096 SI Project # 164120 / PO 99-20661	SITE 2 OUTI	SITE 2 OUTFLOW FRM TJ POUND Date Sampled:	ON:	Date Sampled:	22-Dec-08	11:00
Batch ID: Instrument:	2502ba-15148 GC/MS #3 Agilent 6890/5973	Matrix: Analyst:	Waste Water D. Gonsman			ة ة ة	Date Processed: Date Analyzed:		
CONSTITUENT	VT FRACTION		МЕТНОВ	RESULT	W STINO	MDL	RL	ILUTION FACTOR	ACCEPTANCE RANGE
(PCB030)	Total		EPA 625m	88	% Recovery			-	46 - 119%
(PCB112)	Total		EPA 625m	86	% Recovery			_	52 - 123%
(PCB198)	Tota	_	EPA 625m	86	% Recovery			₩.	59 - 123%
(TCMX)		_	EPA 625m	26	% Recovery			•	40 - 110%
Bolstar (Sulprofos)	ofos) Tota		EPA 625m	Q	ng/L	10	20	-	Ą
Chlorpyrifos	Tota		EPA 625m	QN	ng/L	5	10	<b>-</b>	A Z
Demeton	Tota	_	EPA 625m	QN ON	ng/L	10	20	<del></del>	NA
Diazinon	Tota		EPA 625m	QN	ng/L	ю	10	<b>4</b> ~~	NA
Dichlorvos	Tota		EPA 625m	QN	ng/L	10	20	<b>~</b>	Ą
Dimethoate	Tota		EPA 625m	Q	ng/L	5	10	_	× ×
Disulfoton	Total		EPA 625m	Q.	ng/L	10	20	<b>/</b>	AA
Ethoprop (Ethoprofos)	oprofos) Total		EPA 625m	ND	ng/L	0	20	****	AN
Fenchlorphos (Ronnel)	(Ronnel) Total		EPA 625m	QN	ng/L	9	20	<b>4</b>	∢ Z
Fensulfothion	Total		EPA 625m	ND	ng/L	10	20	_	NA
Fenthion	Total	_	EPA 625m	QN	ng/L	10	20	<del></del>	ĄZ
Mafathion	Total		EPA 625m	S	ng/L	2	10	-	A N
Merphos	Total		EPA 625m	NO NO	ng/L	10	20	<b>*</b>	¥ Z
Methyl Parathion	ion Total		EPA 625m	ND	ng/L	10	20	<b>*</b>	Ϋ́
Mevinphos (Phosdrin)	hosdrin) Total		EPA 625m	ND	ng/L	10	20		ž
Phorate	Total		EPA 625m	S	ng/L	<del>1</del> 0	20	*	Ž
Tetrachlorvinphos (Stirofos)	ihos (Stirofos) Total		EPA 625m	QN	ng/L	10	20	<b>-</b>	A N
Tokuthion	Total		EPA 625m	NO		10	20	-	N A
Trichloronate	Total		EPA 625m	ND	. ug/L	10	20	τ	¥Z

MDL.= Method Detection Limit (CFR 40 Part 136); RL.= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33716

# CRG Marine Laboratories, 9uc, 2020 Del Amo Blvd., Sulte 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client: /	MWH Laboratories						CRG Project ID:		2502ha
CRG ID#:	33717	Sample	251220097	ATTA	SITE 2 OF THE OWERN TIBOURD AND STATES	GM			501001
Replicate #:	73	Description:	-	PO 99-20661			Date Sampled: Date Received:	: ZZ-Dec-05	11:20
Batch ID: Instrument:	2502ba-15148 GC/MS #3 Anient 6890/5973	Matrix:	Waste Water			1 53	Date Processed:		
			D. Consinal			u	Date Analyzed:	l: 30-Dec-05	
CONSTITUENT		FRACTION	METHOD	RESULT	UNITS	MDL	RL	DILUTION	ACCEPTANCE
(PCB030)	-	Total	EPA 625m	100	% Recovery			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KANUE.
(PCB112)	1	Total	EPA 625m	103	% Recovery			- 4	40 - 11970
(PCB198)	<b> </b>	Total	EPA 625m	) ) ) ()	% Recovery			m fo	52 - 123%
(TCMX)		Total	EPA 625m	102	% Recovery			* <del>*</del>	40 - 110%
Bolstar (Sulprofos)		Total	EPA 625m	S	, na/L	10	20	. 1-	20 VIV
Chlorpyrifos	-	Total	EPA 625m	S	7/60	. ru	2 0	- 4	(
Demeton	ļ.····	Total	EPA 625m	9	ng/L	. 0	20	• •	Ϋ́
Diazinon	<b>-</b>	Total	EPA 625m	Q	ng/L	. ro	19	· <del>-</del>	AN AN
Dichlorvos	_	Total	EPA 625m	ON	ng/L	10	20	. 4	, d
Dimethoate	<b> </b>	Total	EPA 625m	ND	ng/L	. ro	10	• •	( A
Disulfoton		Total	EPA 625m	Q	ng/L	5	20	· <del></del>	AN N
Ethoprop (Ethoprofos)		Total	EPA 625m	QN	ng/L	9	20		C V
Fenchlorphos (Ronnel)		Total (	EPA 625m	S	ng/L	0	20		Ž Z
Fensulfothion			EPA 625m	QN	ng/L	10	20	· <del>-</del>	í Z
Fenthion	É	Total	EPA 625m	Q	ng/L	10	20	_	. V
Malathion	F		EPA 625m	2	ng/L	ις.	0	<del></del>	X X
Merphos		Total	EPA 625m	9	na/L	10	20	· •	Ϋ́
Methyl Parathion		Total	EPA 625m	2	ng/L	10	20	٠, -	₹ N
Mevinphos (Phosdrin)		Total	EPA 625m	QN	ng/L	9	20		VIV
Phorate		Total	EPA 625m	9	ja/L	10	20	- 4	Ž Z
Tetrachlorvinphos (Stirofos)		Total	EPA 625m	2	ů na/L	10	1 8		ζ <u>ς</u>
Tokuthion	ĭ	Total	EPA 625m	S	na/L	10	20 00		<b>V</b>
Trichloronate	Ţ	Total E	EPA 625m	ND	ng/L	10	30 20		<u> </u>

MDL.; ND= Not Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33717 R1

# 2020 Del Amo Bivd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client:	MWH Laboratories	ies					ľ	CRG Project ID:		2502ba
CRG ID#:	33718	Sample	ole	251220098	SITE 3 BIG	SITE 3 RIG T.I WASH 1		Date Campled.	000	40.50
Replicate #:	23	Desc	Description:	Project # 164120 / PO 99-20661	7 99-20661		<b>****</b>	Date Sampled. Date Received:		12:30
Batch ID: Instrument:	2502ba-15148 GC/MS #3 Agilent 6890/5973	Matrix: /5973 Analyst:	x: Æt:	Waste Water D. Gonsman			<u></u>	Date Processed: Date Analyzed:		
CONSTITUENT	L	FRACTION	*	МЕТНОВ	RESULT	UNITS	MDL	RL	ILUTION	ACCEPTANCE BANCE
(PCB030)		Total	Ш	EPA 625m	86	% Recovery		V	TACION	A6 - 110%
(PCB112)		Total	Ш	EPA 625m	56	% Recovery			- +	52 123%
(PCB198)		Total	w	EPA 625m	88	% Recovery			· •	59 - 123%
(TCMX)		Total	ш	EPA 625m	100	% Recovery			-	40 - 110%
Bolstar (Sulprofos)	ofos)	Total	щ	EPA 625m	Q	J/Gu	10	20	<del>-</del>	A N
Chlorpyrifos		Total	Ш	EPA 625m	â	ng/L	ιC	10	· •	. ∀
Demeton		Total	ũ	EPA 625m	N P	ng/L	10	20	· <del>-</del>	Į V
Diazinon		Total	面	EPA 625m	Q	ng/L	'n	10	<del>, ,</del>	V V
Dichlorvos		Total	面	EPA 625m	Q	ng/L	10	20	- <b>4</b>	
Dimethoate		Total	ū	EPA 625m	NO NO	ng/t.	ů.	10	· <del></del>	ζ ₹
Disulfoton		Total	面	EPA 625m	QN	ng/L	10	50		Z V
Ethoprop (Ethoprofos)	ioprofos)	Total	Ē	EPA 625m	QN	ng/L	10	20	- <del>4</del>	. V
Fenchlorphos (Ronnel)	(Ronnel)	Total	Ü	EPA 625m	S	ng/L	9	20	· •	Y N
Fensulfothion		Totai	Ш	EPA 625m	2	ng/L	10	20	· <del>-</del>	Z ₹
Fenthion		Total	ũ	EPA 625m	S	ng/L	10	20	<b>/</b>	Ϋ́
Malathion		Total	iii	EPA 625m	ND	ng/L	ιΩ	10	<b>4</b>	NA
Merphos		Total	ш	EPA 625m	Q.	ng/L	10	20	<del>-</del>	, AN
Methyl Parathion	ion	Total	並	EPA 625m	QN.	ng/L	10	20		ž Z
Mevinphos (Phosdrin)	hosdrin)	Total	üί	EPA 625m	QN	ng/L	10	20		ΝΑ
Phorate		Total	苗	EPA 625m	ND	ng/L	10	2		
Tetrachlorvinphos (Stirofos)	rhos (Stirofos)	Total	苗	EPA 625m	QN	ng/L	0	50 50	- 4	ž V
Tokuthion		Total	ш	EPA 625m	N Q	ng/L	10	20	. <i>f</i>	2
Inchloronate		Total	苗	EPA 625m	ND	ng/L	10	20	•	Α. V

MDL.= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33718 R1

# CRG Marine Laboratories, 9uc. 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

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Client:	Client: MWH Laboratories						CRG Project ID:		2502ba
CRG ID#; Replicate #;	<b>33719</b> R1	Sample Description:	251220099 Project # 164120 / PO 99-20661	SITE 3 BIG TJ WASH 2 ) 99-20661	TJ WASH 2		Date Sampled: Date Received:	)ec-0;	12:45
Batch ID: Instrument:	2502ba-15148 GC/MS #3 Agilent 6890/5973	Matrix: Analyst:	Waste Water D. Gonsman			₩ W	Date Processed Date Analyzed:		
CONSTITUENT	(T FRACTION	TION	МЕТНОВ	RESULT	UNITS	MDL	RE	DILUTION /	ACCEPTANCE RANGE
(PCB030)	Tota	tal	EPA 625m	101	% Recovery	***************************************	,		46 - 119%
(PCB112)	Tota	_	EPA 625m	104	% Recovery			<b>-</b>	52 - 123%
(PCB198)	Tota	-	EPA 625m	89	% Recovery			-	59 - 123%
(TCMX)			EPA 625m	101	% Recovery			*	40 - 110%
Bolstar (Sulprofos)	ofos) Tota		EPA 625m	Q.	ng/L	10	20	****	ΑN
Chlorpyrifos	Tota	_	EPA 625m	QN QN	ng/L	5	10	<b>4</b>	Υ Δ
Demeton	Tota	_	EPA 625m	QN	ng/L	10	20	<del></del>	¥N.
Diazinon	Tota		EPA 625m	S	ng/L	2	10	-	× ×
Dichlorvos	Tota		EPA 625m	N ON	ng/L	10	20	<del></del>	N A
Dimethoate	Tota		EPA 625m	NO NO	ng/L	S	10	<del></del>	Ϋ́Z
Disuffoton	Tota		EPA 625m	QN ON	ng/L	10	20	4	₹ Z
Ethoprop (Ethoprofos)	ioprofos) Tota		EPA 625m	2	ng/L	10	20	· ·	\ X
Fenchlorphos (Ronnel)	(Ronnel) Total		EPA 625m	8	ng/L	10	20	_	AA
Fensulfothion	Total		EPA 625m	QN QN	ng/L	10	20	<del></del>	Ϋ́
Fenthion	Total	_	EPA 625m	S	ng/L	10	20	<b>~</b>	¥Z.
Malathion	Total		EPA 625m	NO ON	ng/L	ιΩ	9	fun	ΑN
Merphos	Total		EPA 625m	QN QN	ng/L	10	20	<b>4-</b> -	Ą
Methyl Parathion	íon Total		EPA 625m	Q	ng/L	10	20	ζ	AN
Mevinphos (Phosdrin)	hosdrin) Total		EPA 625m	QN	ng/L	10	20	<del></del>	N A
Phorate	Total		EPA 625m	Q.	ng/L	10	20	4	AA
Tetrachlorvinphos (Stirofos)	nhos (Stirofos) Total		EPA 625m	9	ng/L	10	20	<b>-</b>	AN
Tokuthion	Total		EPA 625m	Q	ng/L	10	20	_	Ϋ́
Trichioronate	Total		EPA 625m	QN	ng/L	10	20	-	NA

MDL.» Method Detection Limit (CFR 40 Part 136); RL.= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33719 R1

# 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crolabs@sbcglobal.net

Client:	MWH Laboratories						CRG Project ID:		2502ha
CRG ID#; Replicate #:	33720 R1	Sample Description:	251220100 SIT	SITE 4 HAIN	SITE 4 HAINES CANYON CREEK	ı	Date Sampled:	)ec-0	08:30
Batch ID:			-			<b></b>	Date Received:	l: 23-Dec-05	
Instrument:	GC/MS #3 Agilent 6890/5973	Analyst:	D. Gonsman				Date Analyzed:		
CONSTITUENT	VT FRACTI	NOIL	МЕТНОВ	RESULT	UNITS	MDL	RI,	DILUTION	ACCEPTANCE
(PCB030)	<u>)                                    </u>	Total	EPA 625m	977	% Recovery			FACTOR	KAINGE.
(PCB112)	7.	Total	EPA 625m	- 66	% Recovery			~ ~	40 - 118%
(PCB198)	ĭ	Total	EPA 625m	87	% Recovery			<del>- ,-</del>	50 - 123%
(TCMX)		Total	EPA 625m	96	% Recovery			- ५	40 - 110%
Bolstar (Sulprofos)		Total	EPA 625m	P	ng/L	10	20	•	20 AN
Chlorpyrifos	7	Total	EPA 625m	QN	ng/L	5	1 6		Ç V
Demeton	TC TC	Total	EPA 625m	QN	ng/L	9	20	- 4	₹ Z
Diazinon	Tc	Total	EPA 625m	Q	ng/L	ιņ	10	. 4	A Z
Dichlorvos	16	Total [	EPA 625m	2	ng/L	10	2 2	· <del>-</del>	
Dimethoate	TC	Total	EPA 625m	Q	ng/L	5	10	- 4	( V
Disulfoton		Total	EPA 625m	NO.	na/L	. 0	20	- 4	<b>₹</b> 2
Ethoprop (Ethoprofos)		Total	EPA 625m	9	ng/L	- 0	20	<del></del>	(
Fenchlorphos (Ronnel)		Totai E	EPA 625m	9	ng/L	10	20	. —	<
Fensulfothion	Tc		EPA 625m	N O N	ng/L	10	50		<b>₹</b>
Fenthion	7		EPA 625m	Q	ng/L	10	20	4	. V
Malathion	70		EPA 625m	QN	ng/L	ស	10	· <del>-</del>	Ň N
Merphos		Total E	EPA 625m	S	ng/L	10	20	_	· V
Methyl Parathion		Total E	EPA 625m	QN	ng/L	10	20	· +~	<b>₹</b> 8
Mevinphos (Phosdrin)		Total	EPA 625m	QN	ng/L	0	20	· +-	<u> </u>
Phorate		Total E	EPA 625m	2	ng/L	0	20 2	- 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Tetrachlorvinphos (Stirofos)		Total	EPA 625m	2	na/L	. 0	200	- 4-	2 2
Tokuthion	To	Total	EPA 625m	Q	ng/L	10	20	• •	ζ <u>ς</u>
Trichloronate	To	Total E	EPA 625m	ND	ng/L	9	20	- +-	¥ X

MDL.= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33720 R1

# **CRG Marine Laboratories, 9uc.**2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client:	MWH Laboratories	-					CRG Project ID.		250360
ייים עמט	70700						61.000		20020d
Replicate #:	33/21 R1	Sample Description:	251220101 Project # 164120 / PO 99-20661	SITE 4 HAIN O 99-20661	SITE 4 HAINES CANYON CREEK		Date Sampled:		08:45
Batch ID:	2502ba-15148 GCMS #3 Anibat 600016073		Waste Water				Date Received: Date Processed;	: 23-Dec-05 d: 23-Dec-05	
	Control #3 Agricial 0690/397.	3 Analyst:	U. Gonsman			_	Date Analyzed:	: 30-Dec-05	
CONSTITUENT	NT FRACTI	NO	METHOD	RESULT	UNITS	MDL	RL I	DILUTION	ACCEPTANCE
(PCB030)	-	Total	EPA 625m	105	% Recovery				KANOE
(PCB112)	ļma	Total	EPA 625m	103	% Pocovory			- ,	40 - 118%
(PCB198)	_		EPA 625m	) (0	% Recovery			- 4	52 - 123%
(TCMX)		Total	EPA 625m	102	% Recovery			··· <del>{-</del>	39 - 123% 40 - 140%
Bolstar (Sulprofos)		Total	EPA 625m	S	na/l	Ç	06	- 4	0/01 - 07
Chlorpyrifes	_	Total	EPA 625m	N ON	7/61	2 v:	10	- 4-	ζ < Ζ 2
Demeton	<b></b>	Total E	EPA 625m	2	- ĵ	, Ç	2000	<del>-</del>	¥ \
Diazinon	-	Total	EPA 625m	Q.	ng/L	: LO	10	- 4	<b>∀</b> Ν
Dichlorvos	<b>F</b>	Total	EPA 625m	8	na/L	101	2 6	· •	ζ <u>&lt;</u>
Dimethoate	<b>!</b>	Total	EPA 625m	Q	ng/L		10	- 4-	¥ ×
Disulfoton		Total	EPA 625m	Q	na/L	Ę	000	- 4-	ζ. V. Z.
Ethoprop (Ethoprofos)		Total	EPA 625m	9	ng/L	÷ ¢	) F	~ τ-	¥ × ×
Fenchlorphos (Ronnel)		Total	EPA 625m	S	ng/L	÷ ¢	) 	- 4-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Fensulfothion		Total	EPA 625m	QN	ng/L	2 2	20	- *-	Y N
Fenthion	1	Total	EPA 625m	QN	na/L	10	50	· <del>-</del>	<b>X X</b>
Malathion	F	Total E	EPA 625m	NO	ng/L	' ທ	10	- 4	( V
Merphos		Total E	EPA 625m	9	na/l	. (2	: 6	· •	< ~
Methyl Parathion		Total	EPA 625m	2	l/Su	5 5	20	- +	( ·
Mevinphos (Phosdrin)		Total E	EPA 625m	Q	- //Ju	5 5	2 6	- +	₹ \$
Phorate		Total	EPA 625m	Q	1.6.1 	2 6	3 6	4	¥ .
Tetrachlorvinp	Tetrachlorvinphos (Stirofos) To	Total	EPA 625m	2	1,00	5 5	2 6	<del>-</del> -	¥ ;
Tokuthion	7	Total	EPA 625m	2	1 // 0	5 5	02 6	- 1	ď :
Trichloronate	7	Total	EPA 625m	) C	1 /00	5 ć	20 6	··· ,	¥ ;
					- J	⊇	70	<del></del>	NA A

MDL: Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33721

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### QUALITY CONTROL REPORT

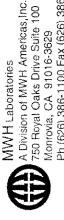
# **CRG Marine Laboratories, 9uc,** 2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206 (310) 533-5190 FAX (310) 533-5003 crglabs@sbcglobal.net

Client:	MWH Laboratories						RG Pro	CRG Project ID:	2502ha
CRG ID#	2777	3 7 7 7 7 0						7200	400400
Replicate #:		sampie Description:	UAUC Project # 164120 / PO 99-20661	Procedural Blank 299-20661	Slank	Ω ε	Date Sampled	.; ;;	
Batch ID:	2502ba-15148	Matrix:	DI Water			3 6	Date Received:	4	Ŀ
Instrument:	GC/MS #3 Agilent 6890/5973	Analyst:	D. Gonsman			מנ	Date Analyzed:	sea:	05 05
CONSTITUENT	NT FRACT	ION	METHOD	RESULT	UNITS	MDL	RL	DILUTION	ACCEPTANCE RANGE
(PCB030)	Total		EPA 625m	55	% Recovery			-	46 - 119%
(PCB112)	Total		EPA 625m	66	% Recovery			-	52 - 123%
(PCB198)	Total		EPA 625m	94	% Recovery				59 - 123%
(TCMX)			EPA 625m	5	% Recovery			· <del>-</del>	40 - 110%
boistar (Sulprofes)			EPA 625m	S	ng/L	10	50	-	× ×
Chlorpyrifos	Total		EPA 625m	NO	ng/L	J.	10	₩	N AN
Demeton	Total		EPA 625m	NO.	ng/L	10	20	•	Υ N
Diazinon	Total		EPA 625m	QN QN	ng/L	5	10	-	Ž
Dichlorvos	Total		EPA 625m	QN QN	ng/L	10	50	· ••••	. « . Z
Dimethoate	Total		EPA 625m	Q.	ng/L	ß	9	•	Ž Ž
Disulfoton	Total		EPA 625m	S	ng/L	10	50	· <del>-</del>	ΔN
Ethoprop (Ethoprofos)			EPA 625m	QN	ng/L	10	50	. <b>4</b>	ξ Z
Fenchlorphos (Ronnel)	(Ronnel) Total		EPA 625m	9	ng/L	10	20	· •	
Ferrsulfothion			EPA 625m	ND	ng/L	10	20	· <del>t ·</del>	¥ Z
renthion	Total		EPA 625m	Q	T/bu	9	20	₩	Ž Z
Malathion	Total		EPA 625m	QN QN	ng/L	5	10	<del></del>	. Y
Merphos	Total		EPA 625m	Q.	ng/L	10	20	<del>-</del>	N AN
Methyl Parathion	ion Total		EPA 625m	NO	ng/L	10	50		Ž.
Mevinphos (Phosdrin)	hosdrin) Total		EPA 625m	QN	ng/L	Ç	5		ź
Phorate	Total		EPA 625m	8	ng/L	0	2 6	- +-	₹ \$
Tetrachlorving	Tetrachlorvinphos (Stirofos) Total		EPA 625m	8	na/i		2 6	- 4-	<u> </u>
Tokuthion	Total		EPA 625m	C		2 6	3 6	~ +	¥.
Trichloronate	Total		EPA 625m	S	1,50	5 5	2 6	- *	¥ :
				)	ž I	2	3	<b></b>	NA

MDL.= Method Detection Limit (CFR 40 Part 136); RL= Minimum Level (SWRCB); E= Estimated Value below the RL and above the MDL; ND= Not Detected; NA= Not Applicable.

California ELAP Certificate # 2261 33713

### CHAIN-OF-CUSTODY



Ph (626) 386-1100 Fax (626) 386-1095 Ship To Misty B. Mercier CRG MARINE

<u>Report all quality control data according to Method. Include dates analyzed,</u> date extracted (if extracted) and Method reference on the report. **Results must have Complete data & QC with Approval Signature.** See reverse side for List of Terms and Conditions

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix

MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016

Phone (626) 386-1137 Fax (626) 386-1095 Invoices to: MWH LABORATORIES

EMAIL TO: Michael Lettona@mwhglobal.com

Accounts Payable PO BOX 6610, Broomfield, CO 80021

Reports: Michael Lettona Sub-contracting Administrator

ELAP WW

J

REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!

99-20661

Sub PO#

Report & Invoice must have the MWH Project Number 164120

12/22/05

Submittal Form & Purchase Order 99-20661

Torrance, CA 90501-1206 2020 Del Amo Blvd Suite 200

(310) 533-5190 x106

(310) 533-5003 Fax

01/06/06 MWH Project # Report Due: 164120

RBC

99-20661 Sub PO#

Client Sample ID for reference only

Sample Date & Time Analysis Requested

Matrix

Containe

WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU WW 3 1L amber glass+ buffer+ascorbic+ED1A+DZU WW 3 1L amber glass+ buffer+ascorbic+EDTA+DZU 10:15 12/22/05 12:45 12/22/05 11:20 12/22/05 08:30 12/22/05 10:00 12/22/05 12:30 12/22/05 11:00 12/22/05 8:45 12/22/05 DIAZINON & CHLORPYRIFOS by 625 SITE 4 HAINES CANYON CREEK 1 DIAZINON & CHLORPYRIFOS by 625 SITE 2 OUTFLOW FRM TJ POUND1 DIAZINON & CHLORPYRIFOS by 625 SITE 2 OUTFLOW FRM TJ POUND2 DIAZINON & CHLORPYRIFOS by 625 SITE4 HAINES CANYON CREEK 2 SITE 1 INFLOW TO TJ POND 1 SITE 1 INFLOW TO TJ POND 2 SITE 3 BIG TJ WASH 2 SITE 3 BIG TJ WASH 1 251220096 251220098 251220099 251220100 251220095 251220101 251220097 251220091 @ DIAZEDD @ DIAZEDD @ DIAZEDD @DIAZEDD @ DIAZEDD @DIAZEDD @ DIAZEDD **⊗**DIAZEDD

1402 MOST

Relinquished by:

Received by:

Date 12/22/05 Sample Control

Time 152 MUST HAVE NOTIFICAION IF TEMP IS GREATER THAN 6 OF LESS THAN 2 CELSIUS

Page 1

124365 Time 09'45

An Acknowledgement of Receipt is requested to attn: Michael Lettona



CRG Project ID

CLIENT MWH	DATE RECEIVED	12/23/05
		,
	OURIER INFORMATION	
☐ CRG	NUMBER 6912 366	3 5340
TEMPERATURE  BLUE ICE  CONTROL NO ICE	Chain-of-Custody  WCLUDED  SIGNED  NOT INCLUDED	SAMPLE MATRIX LIQUID SOLID OTHER*
CONDITION OF SAMPLE	S UPON ARRIVAL	
All sample containers intact ar All samples listed on COC are Sample ID on containers cons Correct containers used for an All samples received within me	present	NO* NA
	*NOTES	
	COMPLETED R	v. 44

2020 Del Amo Boulevard Suite 200, Torrance, CA 90501 · (310) 533-5190 · FAX (310) 533-5003